SAFETY DATA SHEET

Date of issue/Date of revision : 23 October 2023 Version : 1.02



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : MANGER'S White Spirit

EC number : Not available.

REACH Registration number

Registration number	Legal entity
01-2119458049-33	-

CAS number : Not available.

Product code : 17002DUX038

Product description :

Product type : Liquid.

Other means of : Not available.

identification

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Use in coatings-Consumer Use in coatings- Professional

Product use : Consumer applications, Professional applications, Application by non spray methods..

1.3 Details of the supplier of the safety data sheet

PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000 PPG Europe BV, Oceanenweg 2, 1047 BB Amsterdam, Netherlands. Tel: +31 (0) 204 075 050

e-mail address of person responsible for this SDS

: ps.acemea-north@ppg.com

1.4 Emergency telephone number

<u>Supplier</u>

F44 (0) 1924 354000 (Monday-Thursday 8.00-17.00, Friday 8.00-16.00 (GMT))

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : UVCB
Classification according to UK CLP/GHS

Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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SECTION 2: Hazards identification

Hazard pictograms







Signal word

: Danger

Hazard statements

: Flammable liquid and vapour.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

Precautionary statements

General

: Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this

product.

Response

: Collect spillage. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

Storage Disposal : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

: Dispose of contents and container in accordance with all local, regional, national

and international regulations.

P102, P101, P210, P271, P273, P260, P270, P391, P304 + P312, P301 + P310, P331,

P405, P403 + P233, P501

Supplemental label

elements

: Repeated exposure may cause skin dryness or cracking.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Yes, applicable.

Tactile warning of danger : Yes, applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	Р	В	Т	vPvB	vP	vB
N/A	N/A	N/A	Yes	N/A	N/A	N/A

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.1 Substances : UVCB

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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Type
naphtha (petroleum), hydrodesulphurized heavy Nota(s) P	EC: 265-185-4 CAS: 64742-82-1 Index: 649-330-00-2	80.6	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 See Section 16 for the full text of the H statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>Type</u>

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion: If swallowed, seek medical advice immediately and show the container or label. Keep

person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact: Defatting to the skin. May cause skin dryness and irritation.

Ingestion: Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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SECTION 4: First aid measures

Skin contact : Adverse symptoms may include the following:

> irritation dryness cracking

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

: Decomposition products may include the following materials: carbon oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 5°C (32 to 41°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Occupational exposure limits

No exposure limit value known.

procedures

Recommended monitoring: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
naphtha (petroleum), hydrodesulphurized heavy Nota(s) P	DNEL	Long term Inhalation	1286 mg/m³	Workers	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Inhalation Long term Inhalation Short term Inhalation Long term Inhalation Long term Inhalation Short term Inhalation Short term Inhalation Short term Inhalation	0.41 mg/m³ 1.9 mg/m³ 178.57 mg/m³ 640 mg/m³ 837.5 mg/m³ 1066.67 mg/m³ 1152 mg/m³ 1286.4 mg/m³	General population Workers General population General population Workers Workers General population Workers	Systemic Local Local Local Local

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Skin protection

Chemical splash goggles.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Gloves

: For prolonged or repeated handling, use the following type of gloves:

Recommended: nitrile rubber thickness >= 0.55 mm - polyvinyl alcohol (PVA) - Viton®

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SECTION 8: Exposure controls/personal protection

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Mask type: full-face mask half-face mask Filter type: organic vapour filter (Type A) particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>

Physical state : Liquid. Colour Clear.

Odour Hydrocarbon. [Slight]

Odour threshold : Not available.

Melting point/freezing point

: May start to solidify at the following temperature: -43.77°C (-46.8°F) This is based on data for the following ingredient: 1,2,4-trimethylbenzene. Weighted average:

-63.78°C (-82.8°F)

Initial boiling point and

boiling range

: 150°C (302°F)

Not available.

Flammability (solid, gas)

Upper/lower flammability or

explosive limits

: liquid Greatest known range: Lower: 1.4% Upper: 7.6% (Naphtha (petroleum),

hydrodesulfurized heavy)

Closed cup: 40°C (104°F) Flash point

Auto-ignition temperature

Decomposition temperature

pН : Not applicable.

> Not applicable. insoluble in water. Kinematic (40°C): <14 mm²/s

Solubility(ies)

Media	Result
cold water	Not soluble

Miscible with water No.

Partition coefficient: n-octanol/ : Not applicable.

water

Viscosity

Vapour pressure : Not available. Relative density : 0.77

: Highest known value: 4.4 (Air = 1) (nonane). Weighted average: 4.24 (Air = 1) Vapour density The product itself is not explosive, but the formation of an explosible mixture of **Explosive properties**

vapour or dust with air is possible.

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SECTION 9: Physical and chemical properties

Oxidising properties

: Product does not present an oxidizing hazard.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous

decomposition products

: Depending on conditions, decomposition products may include the following

materials: carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
naphtha (petroleum), hydrodesulphurized heavy Nota(s) P	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary: Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary : Not available.

Skin : Not available.

Eyes : Not available.

Respiratory : Not available.

Sensitisation

Conclusion/Summary

Skin: Not available.Respiratory: Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
naphtha (petroleum), hydrodesulphurized heavy Nota(s) P	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
naphtha (petroleum), hydrodesulphurized heavy Nota(s) P	Category 1		central nervous system (CNS)

Aspiration hazard

Product/ingredient name	Result
naphtha (petroleum), hydrodesulphurized heavy Nota(s) P	ASPIRATION HAZARD - Category 1

Information on likely routes: Not available.

of exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed

and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

> irritation dryness cracking

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

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SECTION 11: Toxicological information

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
MANGER'S White Spirit	N/A	N/A	N/A	Yes	N/A	N/A	N/A

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Yes.

Waste catalogue

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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SECTION 13: Disposal considerations

Type of packaging	Waste catalogue			
Container	15 01 02	plastic packaging		

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1300	UN1300	UN1300	UN1300
14.2 UN proper shipping name	TURPENTINE SUBSTITUTE	TURPENTINE SUBSTITUTE	TURPENTINE SUBSTITUTE	TURPENTINE SUBSTITUTE
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Naphtha (petroleum), hydrodesulfurized heavy, nonane)	Not applicable.

Additional information

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or

ADN

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or

IMDG

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **UK (GB)/REACH**

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regulatory information

Ozone depleting substances

Not listed.

Annex XVII - Restrictions: Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

E2

: ATE = Acute Toxicity Estimate

acronyms

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
STOT SE 3, H336	Calculation method
STOT RE 1, H372	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

<u>History</u>

Date of issue/ Date of : 23 October 2023

revision

Date of previous issue : 9 November 2022

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MANGER'S White Spirit

SECTION 16: Other information

Prepared by : EHS Version : 1.02

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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Annex to the extended Safety Data Sheet (eSDS)

Consumer

Identification of the substance or mixture

Product definition : UVCB

Code : 17002DUX038

Product name : MANGER'S White Spirit

Section 1 - Title

Short title of the exposure

scenario

: 919-446-0 Use in coatings-Consumer

List of use descriptors : Identified use name: Use in coatings-Consumer

Substance supplied to that use in form of: As such

Sector of end use: SU21

Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a, ERC08d Market sector by type of chemical product: PC09a

Environmental contributing:

scenarios

Health Contributing

scenarios

: Adhesives, sealants

Anti-freeze and de-icing products

Biocidal products

Non-metal surface treatment products

Ink and toners

Leather treatment products

Lubricants, greases, release products

Polishes and wax blends

Textile dyes and impregnating products Coatings and paints, thinners, paint removers

Fillers, putties, plasters, modelling clay

Finger paints

Number of the ES

Industry Association

Processes and activities covered by the exposure

scenario

: 1 : CEPE

: Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning. Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Product characteristics: Substance is complex

: Substance is complex UVCB. Predominantly hydrophobic

Amounts used : Maximum daily site tonnage 6 kg/day

Frequency and duration of

use

: Continuous release Emission days 365 days per year

Environment factors not influenced by risk

management

: Local freshwater dilution factor: 10 Local marine water dilution factor: 100

Other conditions affecting environmental exposure

: Release fraction to air from process (initial release prior to RMM): 0.985 Release fraction to wastewater from process (initial release prior to RMM): 0.01

Release fraction to soil from process (initial release prior to RMM): 0.005

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Conditions and measures related to sewage treatment plant

: Estimated substance removal from wastewater via municipal sewage treatment: 93.7%

Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater

treatment removal: 1900 kg/dav Assumed domestic sewage treatment plant flow: 2000 m³/d

Conditions and measures related to external treatment of waste for disposal

: External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste

: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling consumer exposure for 2: Adhesives, sealants

Concentration of substance in mixture or article

: Unless otherwise stated. Covers concentrations up to 30%

Physical state

: liauid

Amounts used : Unless otherwise stated. Covers use up to 75g

Covers skin contact area up to 35.73 cm² Glues, hobby use- Covers use up to 9 g

Glues DIY-use (carpet glue, tile glue, wood parquet glue)- Covers use up to 6390 g-

Covers skin contact area up to 110 cm² Glue from spray- Covers use up to 85.05 g

Frequency and duration of use/exposure

: Unless otherwise stated.

Vapour pressure 231 Pa

Covers use up to 365 days per year Covers use up to 1 uses per day Covers exposure up to 1 h/event

Glues, hobby use- Covers exposure up to 4 h/event

Glues DIY-use (carpet glue, tile glue, wood parquet glue)- Covers use up to 1 days

per year- Covers exposure up to 6 h/event

Glue from spray- Covers use up to 6 days per year- Covers exposure up to 4 h/event

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room. Covers use under typical household ventilation.

Conditions and measures related to information and behavioural advice to consumers

: No specific risk management measure identified beyond those operational conditions stated

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 3: Anti-freeze and de-icing products

Concentration of substance in mixture or article

: Washing car window- Covers concentrations up to 1 % Pouring into radiator- Covers concentrations up to 10 % Lock de-icer- Covers concentrations up to 50 %

Physical state : liquid

Vapour pressure 231 Pa

Amounts used : Unless otherwise stated.

Washing car window- Covers use up to 0.5 g

Pouring into radiator- Covers use up to 2000 q- Covers skin contact area up to 428

cm²

Lock de-icer- Covers use up to 4 g- Covers skin contact area up to 214.4 cm²

Frequency and duration of use/exposure

: Unless otherwise stated.

Covers use up to 365 days per year Covers use up to 1 uses per day

Washing car window- Covers exposure up to 0.02 h/event Pouring into radiator- Covers exposure up to 0.17 h/event

Lock de-icer- Covers use up to 0.25 h/event

Other given operational conditions affecting consumers exposure

: Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

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Conditions and measures related to information and behavioural advice to consumers

: No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 4: Biocidal products

Concentration of substance in mixture or article

: Laundry and dish-washing products and Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)-Covers concentrations up to 5 %

Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)-

Covers concentrations up to 15 %

Physical state

: liquid

Vapour pressure 231 Pa

Amounts used

: Unless otherwise stated.

Laundry and dish-washing products- Covers use up to 15 g- Covers skin contact

area up to 857.5 cm²

Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)- Covers use up to 27 g- Covers skin

contact area up to 857.5 cm²

Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)-

Covers use up to 35 g- Covers skin contact area up to 428 cm²

Frequency and duration of use/exposure

: Unless otherwise stated.

Covers use up to 1 uses per day

Laundry and dish-washing products- Covers use up to 365 days per year- Covers

exposure up to 0.5 h/event

Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)- Covers use up to 128 days per year-

Covers exposure up to 0.33 h/event

Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)-

Covers use up to 128 days per year- Covers exposure up to 0.17 h/event

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room. Covers use under typical household ventilation.

Conditions and measures related to information and behavioural advice to consumers

 No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 5: Non-metal surface treatment products

Concentration of substance in mixture or article

: Unless otherwise stated.

Waterborne wall paint- Covers concentrations up to 1.5 %

High solid paint Waterborne paint- Covers concentrations up to 27.5 %

Aerosol spray can and Removers (paint-, glue-, wall paper-, sealant-remover)-

Covers concentrations up to 50 %

Physical state : liquid

Vapour pressure 231 Pa

Amounts used : Unless otherwise stated.

Waterborne wall paint- Covers use up to 2760 g- Covers skin contact area up to

428.75 cm²

High solid paint Waterborne paint- Covers use up to 744 g- Covers skin contact

area up to 428.75 cm²

Aerosol spray can- Covers use up to 215 g

Removers (paint-, glue-, wall paper-, sealant-remover)- Covers use up to 491 g-

Covers skin contact area up to 857.5 cm²

Frequency and duration of use/exposure

: Unless otherwise stated.

Covers use up to 1 uses per day

Waterborne wall paint- Covers use up to 4 days per year- Covers exposure up to

2.2 h/event

High solid paint Waterborne paint- Covers use up to 6 days per year- Covers

exposure up to 2.2 h/event

Aerosol spray can- Covers use up to 2 days per year- Covers exposure up to 0.33 h/

event

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Other given operational conditions affecting consumers exposure

Removers (paint-, glue-, wall paper-, sealant-remover)- Covers use up to 3 days per year- Covers exposure up to 2 h/event

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room. Covers use under typical household ventilation.

Aerosol spray can- Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Conditions and measures related to information and behavioural advice to consumers

: No specific risk management measure identified beyond those operational

conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 6: Ink and toners

Concentration of substance in mixture or : Unless otherwise stated. Covers concentrations up to 10 %

article

: liquid

Physical state

Amounts used

Vapour pressure 231 Pa : Unless otherwise stated. Covers use up to 40 g

Covers skin contact area up to 71.4 cm²

Frequency and duration of

use/exposure

: Unless otherwise stated.

Covers use up to 365 days per year Covers use up to 1 uses per day Covers exposure up to 2.2 h/event

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room.

Covers use under typical household ventilation.

Conditions and measures related to information and behavioural advice to consumers

: No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 7: Leather treatment products

Concentration of substance in mixture or article

: Unless otherwise stated. Covers concentrations up to 50 %

Physical state

Amounts used

: liquid

Vapour pressure 231 Pa

: Unless otherwise stated. Covers use up to 56 g

Covers skin contact area up to 430 cm²

Frequency and duration of

use/exposure

consumers

: Unless otherwise stated.

Covers use up to 1 uses per day

Polishes, wax/cream (floor, furniture, shoes)- Covers use up to 29 days per year-

Covers exposure up to 1.23 h/event

Polishes, spray (furniture, shoes)- Covers use up to 8 days per year- Covers

exposure up to 0.33 h/event

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room.

Covers use under typical household ventilation.

Conditions and measures related to information and behavioural advice to

: No specific risk management measure identified beyond those operational

conditions stated.

Conditions and measures related to personal protection and hygiene

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Contributing scenario controlling consumer exposure for 8: Lubricants, greases, release products

Concentration of substance in mixture or

article

Liquids- Covers concentrations up to 100 % Pastes- Covers concentrations up to 20 % Sprays- Covers concentrations up to 50 %

Physical state

: liauid

Vapour pressure 231 Pa

: Unless otherwise stated.

Amounts used

: Unless otherwise stated.

Liquids- Covers use up to 2200 g- Covers skin contact area up to 468 cm² Pastes- Covers use up to 34 g- Covers skin contact area up to 468 cm² Sprays- Covers use up to 73 q- Covers skin contact area up to 428.75 cm²

Frequency and duration of

use/exposure

: Unless otherwise stated.

Covers use up to 1 uses per day

Liquids- Covers use up to 4 days per year- Covers exposure up to 0.17 h/event Pastes- Covers use up to 10 days per year- Covers exposure up to 4 h/event Sprays- Covers use up to 6 days per year- Covers exposure up to 0.17 h/event

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room. Covers use under typical household ventilation.

Liquids- Covers use in a one car garage (34 m³) under typical ventilation. Covers

use in room size of 34 m³

Conditions and measures related to information and behavioural advice to consumers

: No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 9: Polishes and wax blends

Concentration of substance in mixture or

article **Physical state**

: liquid

Vapour pressure 231 Pa Amounts used

: Unless otherwise stated.

Covers skin contact area up to 430 cm²

Polishes, wax/cream (floor, furniture, shoes)- Covers use up to 142 g

Polishes, spray (furniture, shoes)- Covers use up to 35 g

: Unless otherwise stated. Covers concentrations up to 50 %

Frequency and duration of

use/exposure

: Unless otherwise stated.

Covers use up to 1 uses per day

Polishes, wax/cream (floor, furniture, shoes)- Covers use up to 29 days per year-

Covers exposure up to 1.23 h/event

Polishes, spray (furniture, shoes)- Covers use up to 8 days per year- Covers

exposure up to 0.33 h/event

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room.

Covers use under typical household ventilation.

Conditions and measures related to information and behavioural advice to consumers

: No specific risk management measure identified beyond those operational

conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 10: Textile dyes and impregnating products

Concentration of substance in mixture or article

: Unless otherwise stated. Covers concentrations up to 10 %

Physical state : liquid

Vapour pressure 231 Pa

Amounts used : Unless otherwise stated. Covers use up to 115 q

Covers skin contact area up to 857.5 cm²

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Frequency and duration of use/exposure

: Unless otherwise stated.

Covers use up to 365 days per year Covers use up to 1 uses per day Covers exposure up to 1 h/event

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room. Covers use under typical household ventilation.

Conditions and measures related to information and behavioural advice to

: No specific risk management measure identified beyond those operational conditions stated.

consumers

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 11: Coatings and paints, thinners, paint removers

Concentration of substance in mixture or article

: Waterborne wall paint- Covers concentrations up to 1.5 % High solid paint- Covers concentrations up to 27.5 % Aerosol spray can- Covers concentrations up to 50 %

Removers (paint-, glue-, wall paper-, sealant-remover)- Covers concentrations up to

100 %

Physical state

: liquid

Vapour pressure 231 Pa

Amounts used : Unless otherwise stated.

Waterborne wall paint- Covers use up to 2760 g- Covers skin contact area up to

428.75 cm²

High solid paint- Covers use up to 744 g- Covers skin contact area up to 428.75 cm²

Aerosol spray can- Covers use up to 215 g

Removers (paint-, glue-, wall paper-, sealant-remover)- Covers use up to 491 g-

Covers skin contact area up to 857.7 cm²

Frequency and duration of use/exposure

: Unless otherwise stated.

Covers use up to 1 uses per day

Waterborne wall paint- Covers use up to 4 days per year- Covers exposure up to

2.2 h/event

High solid paint- Covers use up to 6 days per year- Covers exposure up to 2.2 h/

event

Aerosol spray can- Covers use up to 2 days per year- Covers exposure up to 0.33 h/

event

Removers (paint-, glue-, wall paper-, sealant-remover)- Covers use up to 3 days per

year- Covers exposure up to 2 h/event

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 \mbox{m}^{3} room.

Covers use under typical household ventilation.

Aerosol spray can- Covers use in a one car garage (34 m³) under typical ventilation.

Covers use in room size of 34 m³

Conditions and measures related to information and behavioural advice to consumers

: No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 12: Fillers, putties, plasters, modelling clay

Concentration of substance in mixture or article

: Fillers and putty and Plasters and floor equalisers- Covers concentrations up to 2 % Modelling clay- Covers concentrations up to 1%

Physical state : liquid

Vapour pressure 231 Pa

Amounts used

: Unless otherwise stated.

Fillers and putty- Covers use up to 85 g- Covers skin contact area up to 35.73cm² Plasters and floor equalisers- Covers use up to 13800 g- Covers skin contact area

un to 857 5 cm

Modelling clay- Covers skin contact area up to 254.4 cm²- For each use event,

assumes swallowed amount of 1 g

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Frequency and duration of use/exposure

: Unless otherwise stated.

Covers use up to 1 uses per day

Fillers and putty- Covers use up to 12 days per year- Covers exposure up to 4 h/

Plasters and floor equalisers- Covers use up to 12 days per year- Covers exposure

up to 2 h/event

Modelling clay- Covers use up to 365 days per year

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room.

Covers use under typical household ventilation.

Conditions and measures related to information and behavioural advice to consumers

: No specific risk management measure identified beyond those operational

conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 13: Finger paints

Concentration of substance in mixture or : Unless otherwise stated. Covers concentrations up to 50 %

article

Physical state : liquid

Vapour pressure 231 Pa

Amounts used : Unless otherwise stated.

For each use event, assumes swallowed amount of 1.35 g

Covers skin contact area up to 254.4 cm²

Frequency and duration of use/exposure

: Unless otherwise stated.

Covers use up to 365 days per year Covers use up to 1 uses per day

Other given operational conditions affecting consumers exposure

: Unless otherwise stated, assumes use as ambient temperatures in a 20 m³ room.

Covers use under typical household ventilation.

Conditions and measures related to information and behavioural advice to

: Avoid using at a product concentration greater than 5 %

consumers

Conditions and measures related to personal protection and hygiene

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):

: Hydrocarbon Block Method (Petrorisk)

Exposure estimation and

: Not available.

reference to its source

Exposure estimation and reference to its source - Consumers: 2: Adhesives, sealants

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 3: Anti-freeze and de-icing products

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

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otherwise indicated.

Exposure estimation and

: Not available.

reference to its source

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Exposure estimation and reference to its source - Consumers: 4: Biocidal products

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and

reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 5: Non-metal surface treatment products

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 6: Ink and toners

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 7: Leather treatment products

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 8: Lubricants, greases, release products

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 9: Polishes and wax blends

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and

reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 10: Textile dyes and impregnating products

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and

reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 11: Coatings and paints, thinners, paint removers

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 12: Fillers, putties, plasters, modelling clay

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Consumers: 13: Finger paints

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

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otherwise indicated.

Exposure estimation and

: Not available.

reference to its source

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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MANGER'S White Spirit	919-446-0 Use in coatings-Consumer	
Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).	
Health	 Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. 	

Additional good practice advice beyond the REACH CSA

Environment	: Not available.
Health	: Not available.

Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : UVCB

Code : 17002DUX038

Product name : MANGER'S White Spirit

Section 1 - Title

Short title of the exposure

scenario

: 919-446-0 Use in coatings- Professional

List of use descriptors

: Identified use name: Use in coatings- Professional

Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a,

PROC08b, PROC10, PROC13, PROC15, PROC11, PROC19

Substance supplied to that use in form of: As such

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a, ERC08d Market sector by type of chemical product: PC09a

Environmental contributing :

scenarios

Health Contributing scenarios

: Transfer of substance or mixture (charging and discharging) at non-dedicated

facilities

Transfer of substance or mixture (charging and discharging) at dedicated

facilities

Chemical production or refinery in closed process without likelihood of

exposure or processes with equivalent containment conditions
Chemical production or refinery in closed continuous process with

occasional controlled exposure or processes with equivalent containment

conditions

Manufacture or formulation in the chemical industry in closed batch

processes with occasional controlled exposure or processes with equivalent

containment condition

Chemical production where opportunity for exposure arises

Mixing or blending in batch processes

Roller application or brushing

Non industrial spraying

Treatment of articles by dipping and pouring

Use as laboratory reagent

Manual activities involving hand contact

Number of the ES

Industry Association

Processes and activities covered by the exposure

scenario

: 1

: CEPE

: Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory

activities.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Product characteristics

: Substance is complex UVCB. Predominantly hydrophobic

Amounts used

: Maximum daily site tonnage 2.3 kg/day

Frequency and duration of

: Continuous release Emission days: 365

Environment factors not influenced by risk management

: Local freshwater dilution factor: 10 Local marine water dilution factor: 100

No wastewater treatment required.

Other conditions affecting environmental exposure

: Release fraction to air from process (initial release prior to RMM): 0.98 Release fraction to wastewater from process (initial release prior to RMM): 0.01 Release fraction to soil from process (initial release prior to RMM): 0.01

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil

: Risk from environmental exposure is driven by soil.

Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%): 0

If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of >= (%): 0

Organisational measures to prevent/limit release from site

: Prevent discharge of undissolved substance to or recover from onsite wastewater. Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated. contained or reclaimed.

Conditions and measures related to sewage treatment plant

: Estimated substance removal from wastewater via municipal sewage treatment: 93.7 %

Total efficiency of removal from wastewater after on-site and off-site (municipal treatment plant) RMMs: 93.7 %

Maximum allowable site tonnage (Msafe) based on release following total wastewater

treatment removal: 1900

Assumed domestic sewage treatment plant flow: 2000 m³/d

Conditions and measures related to external treatment of waste for disposal

: External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste

: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Contributing scenario controlling worker exposure for 2: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Physical state Frequency and duration of

: Covers daily exposures up to 8 hours

use/exposure Other conditions affecting

workers exposure

: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Product safety-related measures

: No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 3: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Physical state Frequency and duration of : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

use/exposure

: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

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Product safety-related

measures

: No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 4: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Physical state Frequency and duration of

: Covers daily exposures up to 8 hours

use/exposure

Other conditions affecting

workers exposure

: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Product safety-related

measures

: Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 5: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Concentration of

substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Physical state

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure : Covers daily exposures up to 8 hours

Frequency and duration of use/exposure

Other conditions affecting

: Assumes use at not more than 20°C above ambient temperature.

Assumes a good basic standard of occupational hygiene is implemented

Product safety-related

workers exposure

measures

: Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 6: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Physical state

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

Product safety-related

: Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 7: Chemical production where opportunity for exposure arises

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

Physical state

article

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

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Product safety-related

: No specific measures identified.

measures

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 8: Mixing or blending in batch processes

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Physical state

Frequency and duration of

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

use/exposure

: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

Product safety-related measures

: Film formation - air drying Outdoor-Indoor No specific measures identified. Preparation of material for application-Outdoor-Indoor No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 9: Roller application or brushing

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Physical state

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

Product safety-related measures

: Outdoor-Indoor No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 10: Non industrial spraying

Concentration of

substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Physical state

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

Product safety-related measures

: Manual Spraying-Indoor

Wear a respirator conforming to EN140.

Manual Spraying-Outdoor Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 4 hours per day, or Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140.

Provide a good standard of controlled ventilation (10 to 15 air changes per hour). or

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 11: Treatment of articles by dipping and pouring

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Physical state

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented

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Product safety-related

measures

: Outdoor-Indoor Avoid manual contact with wet work pieces.

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 12: Use as laboratory reagent

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

Physical state

: Covers daily exposures up to 8 hours

Other conditions affecting

workers exposure

: Assumes use at not more than 20°C above ambient temperature.

Assumes a good basic standard of occupational hygiene is implemented

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Product safety-related measures

: No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation

Contributing scenario controlling worker exposure for 13: Manual activities involving hand contact

Concentration of substance in mixture or : Covers percentage substance in the product up to 100 %.

Physical state

article

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperature.

Assumes a good basic standard of occupational hygiene is implemented

Product safety-related measures

: No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):

: Hydrocarbon Block Method (Petrorisk)

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 2: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 3: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and

: Not available.

reference to its source

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Exposure estimation and reference to its source - Workers: 4: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 5: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and

reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 6: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and

reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 7: Chemical production where opportunity for exposure arises

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 8: Mixing or blending in batch processes

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 9: Roller application or brushing

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and

reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 10: Non industrial spraying

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and

reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 11: Treatment of articles by dipping and pouring

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 12: Use as laboratory reagent

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless

otherwise indicated.

Exposure estimation and

: Not available.

reference to its source

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Exposure estimation and reference to its source - Workers: 13: Manual activities involving hand contact

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

users should ensure that risks are managed to at least equivalent levels.

Exposure estimation and

reference to its source

: Not available.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	 Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.
	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
	Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
	Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).
Health	 Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
	Where other risk management measures/operational conditions are adopted, then

Additional good practice advice beyond the REACH CSA

Environment : Not available. Health : Not available.

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