Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

Date of issue/Date of revision

: 9 November 2022



: 1

Version

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

1.1 Product identifier		
Product name	:	SIGMACONDUCTIVE 70 HARDENER
Product code	:	00369891
Product description	:	
Product type	:	Liquid.
Other means of identification	:	Not available.
1.2 Relevant identified uses	of t	he substance or mixture and uses advised against
Product use	:	Professional applications, Used by spraying.
Use of the substance/ mixture	:	Coating.
Uses advised against	:	Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person : P

: Product.Stewardship.EMEA@ppg.com

responsible for this SDS

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351 STOT SE 3, H335 STOT SE 3, H336

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

Hazard pictograms



Signal word

: Danger

Code : 00369891 SIGMACONDUCTIVE 70 HAP	Date of issue/Date of revision : 9 November 202 DENER
SECTION 2: Hazards	identification
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.
Precautionary statements	
Prevention	: Do not handle until all safety precautions have been read and understood. Wea protective gloves, protective clothing and eye or face protection. Keep away fro heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P210, P305 + P351 + P338, P310, P501
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirer	<u>ents</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or vPvB.
Other hazards which do	: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

Mixture

not result in classification

Product/ingredient name	Identifiers	%	Classification	Туре
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
4-methylpentan-2-one	REACH #: 01-2119473980-30	≥5.0 - ≤10	Flam. Liq. 2, H225 Acute Tox. 4, H332	[1] [2]
English (GB)	United P	(ingdom (UK)		2/1

Code : 00369891 SIGMACONDUCTIVE 70 HARDENER	Date of issue/Date of revision	: 9 November 2022
SECTION 3: Composition/inform	nation on ingredients	

	EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4		Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
2-methoxypropanol	EC: 216-455-5 CAS: 1589-47-5 Index: 603-106-00-0	<0.30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 1B, H360D STOT SE 3, H335	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

English (GB)	United Kingdom (UK)	3/16
Skin contact	: Causes skin irritation. Defatting to the skin.	
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness o dizziness. May cause respiratory irritation.	r
Eye contact	: Causes serious eye damage.	
Potential acute health effects		

Conforms to Regulation	(EC) No. 1907/2006 (REACF	H), Annex II, as amended by UK REAC	H Regulation SI 2019/758
Code : 00369 SIGMACONDUCTIVE		Date of issue/Date of revision	: 9 November 2022
SECTION 4: Fir	st aid measures		
Ingestion	: Can cause centra	I nervous system (CNS) depression.	
Over-exposure sign	<u>s/symptoms</u>		
Eye contact	: Adverse symptom pain watering redness	is may include the following:	
Inhalation	: Adverse symptom respiratory tract in	is may include the following: ritation	

: Adverse symptoms may include the following:

: Adverse symptoms may include the following:

quantities have been ingested or inhaled.

the risk of a subsequent explosion.

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

: Decomposition products may include the following materials:

Use water spray to keep fire-exposed containers cool.

: Treat symptomatically. Contact poison treatment specialist immediately if large

: 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

: 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.

: Fire-fighters should wear appropriate protective equipment and self-contained

breathing apparatus (SCBA) with a full face-piece operated in positive pressure

coughing

headache

redness dryness cracking

Skin contact

Ingestion

media

media

products

Notes to physician

Specific treatments

5.1 Extinguishing media Suitable extinguishing

Unsuitable extinguishing

Hazards from the

substance or mixture

Hazardous combustion

5.3 Advice for firefighters **Special protective actions**

for fire-fighters

Special protective

equipment for fire-fighters

SECTION 5: Firefighting measures

5.2 Special hazards arising from the substance or mixture

nausea or vomiting

drowsiness/fatigue dizziness/vertigo unconsciousness

pain or irritation

stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

: No specific treatment.

: Do not use water jet.

carbon oxides

mode.

blistering may occur

English (GB)

Code	: 00369891
SIGMACO	DNDUCTIVE 70 HARDENER

Date of issue/Date of revision

: 9 November 2022

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive 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. Do not breathe 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).
6.3 Methods and material for	со	ntainment and cleaning up
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). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.

Code : 00369891 SIGMACONDUCTIVE 70 HARDENER Date of issue/Date of revision

: 9 November 2022

SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 35°C (32 to 95°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.

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

Product/ingredient name	Exposure limit values
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
4-methylpentan-2-one	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 416 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 208 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
2-methylpropan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 231 mg/m ³ 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 154 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
Recommended monitoring : If this p	product contains ingredients with exposure limits, personal, workplace
	phere or biological monitoring may be required to determine the effectiveness
	ventilation or other control measures and/or the necessity to use respiratory
	tive equipment. Reference should be made to appropriate monitoring
	rds. Reference to national guidance documents for methods for the
	nination of hazardous substances will also be required.
DNELs/DMELs	
English (GB)	United Kingdom (UK) 6/16

- Code : 00369891 SIGMACONDUCTIVE 70 HARDENER
- **Date of issue/Date of revision** : 9 November 2022

SECTION 8: Exposure controls/personal protection

xyleneDNEL NetShort term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL Lon	Product/ingredient name	Туре	Exposure	Value	Population	Effects
DNEL DNEL Long term Inhalation DNEL Long t	xylene	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
DNEL Long term Inhalation DNEL Long term Oral65.3 mg/m³ 2.21 mg/m³General population General population Systemic Systemic Systemic Systemic Systemic 2.21 mg/m³General population Systemic Systemic Systemic Systemic Systemic 2.21 mg/m³Sort erral population Systemic 2.21 mg/m³Systemic General population Systemic Local WorkersSystemic Systemic Local Local Local Local 2.21 mg/m³General population Systemic LocalSystemic Systemic Local1-methoxy-2-propanolDNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Lon		DNEL	Short term Inhalation	260 mg/m ³	General population	Local
DNEL DNEL DNEL DNEL DNEL DNEL Short term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL <b< td=""><td></td><td>DNEL</td><td>Long term Dermal</td><td>125 mg/kg bw/day</td><td>General population</td><td>Systemic</td></b<>		DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
DNEL DNEL DNELLong term Inhalation DNEL Short term Inhalation DNEL221 mg/m³ 442 mg/m³Workers WorkersSystemic Systemic Local0.NEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL <br< td=""><td></td><td></td><td>Long term Inhalation</td><td>65.3 mg/m³</td><td>General population</td><td>Systemic</td></br<>			Long term Inhalation	65.3 mg/m³	General population	Systemic
Image: DNELShort term Inhalation Long term Inhalation DNEL442 mg/m³ Signame 221 mg/m³Workers WorkersLocal LocalDNELShort term Inhalation DNELLong term Dermal DNEL212 mg/kg bw/dayWorkersSystemic LocalDNELShort term Inhalation DNELShort term Inhalation DNEL65.3 mg/m³General population General populationLocal1-methoxy-2-propanolDNEL DNELLong term Inhalation DNEL221 mg/kg bw/dayGeneral population General populationSystemic Local1-methoxy-2-propanolDNEL DNELLong term Inhalation DNEL221 mg/m³Workers General populationSystemic Systemic1-methoxy-2-propanolDNEL DNELLong term Inhalation DNEL23 mg/kg bw/dayGeneral population SystemicSystemic Systemic1-methoxy-2-propanolDNEL DNELLong term Dermal DNEL78 mg/kg bw/dayGeneral population SystemicSystemic Systemic1-methoxy-2-propanolDNEL DNELLong term Inhalation DNEL553.5 mg/m³WorkersSystemic Systemic1-methoxy-2-propanolDNEL DNELLong term Inhalation DNEL553.5 mg/m³WorkersLocal Systemic4-methylpentan-2-oneDNEL DNELLong term Inhalation DNEL14.7 mg/m³General population SystemicSystemic Systemic0NEL DNELLong term Inhalation DNELLong term Inhalation DNEL14.7 mg/m³General population SystemicLocal Systemic0NEL DNELLon		DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
DNEL DNEL DNEL DNELLong term Inhalation DNEL Long term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL<		DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
Image: https://without.columnDNEL DNELShort term Inhalation DNEL442 mg/m³ Long term Inhalation 212 mg/kg bw/day 260 mg/m³Workers General population General population Local Docal Docal Local DNELShort term Inhalation DNEL420 mg/m³ General population Cocal Systemic Local Systemic Docal DNELLocal Systemic Local Cocal1-methoxy-2-propanolDNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal43.9 mg/kg bw/day General population General population Systemic Systemic Dorket Local Local Local Systemic DNEL DNEL Long term Dermal43.9 mg/m³ General population Systemic Systemic Workers Workers Workers Systemic DNEL Long term Inhalation DNEL Long		DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
DNEL DNEL DNEL DNEL DNEL DNEL DNEL Short term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL Long term Inhalation DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Dermal DNEL Long term Dermal DNEL DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Inhala		DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
Inmethoxy-2-propanolDNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL DNEL Long term Dermal DNEL DNEL Long term Dermal DNEL Long term Dermal Long term Dermal H.2 mg/kg bw/day deneral population Systemic Systemic Systemic General population Systemic Systemic Systemic Systemic Systemic Systemic DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Inhalatio		DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
DNEL DNELLong term Inhalation DNEL65.3 mg/m³ 260 mg/m³General population General populationLocal Local1-methoxy-2-propanolDNEL DNELShort term Inhalation DNEL260 mg/m³ 210 mg/m³General population General populationLocal Local1-methoxy-2-propanolDNEL DNELLong term Inhalation DNEL221 mg/m³ UorkersGeneral population SystemicSystemic Systemic1-methoxy-2-propanolDNEL DNELLong term Inhalation DNEL233 mg/kg bw/day General populationGeneral population SystemicSystemic Systemic1-methylpentan-2-oneDNEL DNELLong term Dermal DNEL78 mg/kg bw/day Short term Inhalation DNELGeneral population SystemicSystemic Systemic4-methylpentan-2-oneDNEL DNEL Long term DermalSont term Inhalation DNEL553.5 mg/m³ HorkersWorkers SystemicSystemic Systemic4-methylpentan-2-oneDNEL DNEL Long term DermalLong term Dermal Horkers4.2 mg/kg bw/day HorkersGeneral population SystemicSystemic Systemic0DNEL DNEL Long term Inhalation DNEL DNEL Long term Inhalation14.7 mg/m³ HorkersGeneral population SystemicSystemic Systemic2-methylpropan-1-olDNEL DNEL Long term Inhalation208 mg/m³ HorkersWorkers SystemicSystemic Systemic2-methylpropan-1-olDNEL DNEL Long term Inhalation208 mg/m³ HorkersWorkers SystemicSystemic Local2-methylpropan-1-ol		DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
I-methoxy-2-propanolDNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long t		DNEL	Long term Inhalation		General population	
DNELShort term Inhalation260 mg/m³General populationSystemic1-methoxy-2-propanolDNELLong term Inhalation221 mg/m³WorkersLocal1-methoxy-2-propanolDNELLong term Inhalation30 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal78 mg/kg bw/dayGeneral populationSystemicDNELLong term Inhalation78 mg/kg bw/dayGeneral populationSystemicDNELLong term Inhalation553.5 mg/m³WorkersSystemicDNELShort term Inhalation553.5 mg/m³WorkersSystemicDNELLong term Oral4.2 mg/kg bw/dayGeneral populationSystemicDNELShort term Inhalation553.5 mg/m³WorkersSystemicDNELLong term Oral4.2 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal11.8 mg/kg bw/dayGeneral populationSystemicDNELLong term Inhalation14.7 mg/m³General populationSystemicDNELLong term Inhalation14.7 mg/m³General populationSystemicDNELLong term Inhalation155.2 mg/m³WorkersSystemicDNELShort term Inhalation155.2 mg/m³General populationSystemicDNELShort term Inhalation208 mg/m³WorkersSystemicDNELShort term Inhalation208 mg/m³WorkersSystemicDNELLong term Inhalation208 mg/m³WorkersSystemic <td></td> <td>DNEL</td> <td>Short term Inhalation</td> <td>260 mg/m³</td> <td>General population</td> <td>Local</td>		DNEL	Short term Inhalation	260 mg/m ³	General population	Local
1-methoxy-2-propanolDNEL DNELLong term Oral DNEL33 mg/kg bw/day 43.9 mg/m³General population General populationSystemic Systemic4-methylpentan-2-oneDNEL DNELLong term Inhalation DNELShort term Inhalation DNEL183 mg/kg bw/day Bomg/m³Workers WorkersSystemic Systemic4-methylpentan-2-oneDNEL DNEL DNELLong term Oral Long term Oral DNEL553.5 mg/m³ Long term Oral Long term OralWorkers SystemicSystemic Systemic4-methylpentan-2-oneDNEL DNEL Long term Oral DNEL DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Inhalation14.7 mg/m³ Bomg/m³General population Workers General population Systemic Dystemic Systemic Local4-methylpentan-2-oneDNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL DNEL Long term Inhalation DNEL DNEL DNEL Long term Inhalation DNEL Long term Inhalation 		DNEL	Short term Inhalation		General population	Systemic
ProvideDNEL DNELLong term Inhalation Long term Dermal43.9 mg/m³ 78 mg/kg bw/dayGeneral population General populationSystemic Systemic4-methylpentan-2-oneDNEL DNELLong term Inhalation DNELShort term Inhalation DNEL369 mg/m³ StatemicWorkers WorkersSystemic Systemic4-methylpentan-2-oneDNEL DNELShort term Inhalation DNELShort term Inhalation DNEL553.5 mg/m³ StatemicWorkers WorkersSystemic Systemic0DNEL DNELLong term Oral DNEL4.2 mg/kg bw/day DNELGeneral population SystemicSystemic Systemic0DNEL DNELLong term Dermal DNEL14.7 mg/m³ DNELGeneral population SystemicSystemic Systemic0DNEL DNELLong term Inhalation DNEL14.7 mg/m³ StatemicGeneral population SystemicSystemic Systemic0DNEL DNELLong term Inhalation DNEL14.7 mg/m³ StatemicGeneral population SystemicSystemic Local0DNEL DNELLong term Inhalation DNEL155.2 mg/m³ StatemicWorkers SystemicSystemic Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL155.2 mg/m³ Ceneral populationSystemic Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL208 mg/m³ Ceneral populationSystemic Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNELStort term Inhalation DNELStort term Inhalation <b< td=""><td></td><td>DNEL</td><td>Long term Inhalation</td><td>221 mg/m³</td><td>Workers</td><td>Local</td></b<>		DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
PartialDNEL DNELLong term Dermal Long term Inhalation DNEL78 mg/kg bw/day B30 mg/m3General population WorkersSystemic Systemic4-methylpentan-2-oneDNEL DNELShort term Inhalation DNELShort term Inhalation DNEL553.5 mg/m3 Stort term InhalationWorkers Stort term Inhalation S53.5 mg/m3General population WorkersSystemic Systemic4-methylpentan-2-oneDNEL DNELLong term Oral Long term Dermal DNEL4.2 mg/kg bw/day Long term Dermal DNELGeneral population SystemicSystemic SystemicDNEL DNELLong term Dermal DNELLong term Inhalation DNEL11.8 mg/kg bw/day Long term Inhalation BNELGeneral population SystemicSystemic SystemicDNEL DNELLong term Inhalation DNELLong term Inhalation DNEL14.7 mg/m3 SistemicGeneral population SystemicSystemic LocalDNEL DNELLong term Inhalation DNELShort term Inhalation DNEL83 mg/m3Workers SystemicSystemic Local2-methylpropan-1-olDNEL DNELShort term Inhalation DNELStort term Inhalation DNEL208 mg/m3Workers SystemicSystemic Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNELStort term Inhalation DNEL208 mg/m3Workers SystemicSystemic Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL16 mg/kg bw/dayGeneral population SystemicLocal Local2-methylpropan-1-olDNEL DNEL<	1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
ParticipantDNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNE		DNEL	Long term Inhalation		General population	
A-methylpentan-2-oneDNEL DNEL DNELLong term Inhalation DNEL369 mg/m³ S3.5 mg/m³WorkersSystemic Local4-methylpentan-2-oneDNEL DNELShort term Inhalation DNELShort term Inhalation DNEL553.5 mg/m³ Long term Oral Long term Dermal DNEL4.2 mg/kg bw/day Long term Dermal 11.8 mg/kg bw/day UNEL Long term Inhalation DNELGeneral population Local WorkersSystemic Systemic Local0.1000 DNEL DNELLong term Inhalation DNEL14.7 mg/m³ Long term Inhalation DNELGeneral population LocalSystemic Local0.101 DNEL DNELLong term Inhalation DNEL14.7 mg/m³ S mg/m³General population General population Systemic LocalSystemic Local0.101 DNEL DNELLong term Inhalation DNEL14.7 mg/m³ S mg/m³General population General population Systemic LocalLocal Systemic2-methylpropan-1-olDNEL DNEL Long term Inhalation DNELShort term Inhalation DNEL Long term Inhalation DNEL208 mg/m³ S mg/m³Workers General population Systemic Local2-methylpropan-1-olDNEL DNEL Long term Inhalation DNEL Long term		DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
A-methylpentan-2-oneDNEL DNEL DNELLong term Inhalation Short term Inhalation DNEL369 mg/m³ S3.5 mg/m³WorkersSystemic Local4-methylpentan-2-oneDNEL DNELShort term Inhalation DNELShort term Inhalation DNEL553.5 mg/m³ Long term OralWorkersSystemic SystemicDNEL DNELLong term Oral DNELLong term Dermal DNEL4.2 mg/kg bw/day UNELGeneral population SystemicSystemic SystemicDNEL DNELLong term Inhalation DNELLong term Inhalation DNEL14.7 mg/m³ General populationGeneral population SystemicLocal SystemicDNEL DNELLong term Inhalation DNELShort term Inhalation DNEL14.7 mg/m³ Samg/m³General population General populationLocal Systemic2-methylpropan-1-olDNEL DNELShort term Inhalation DNEL155.2 mg/m³ SostemicGeneral population SystemicLocal Systemic2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL208 mg/m³ SostemicWorkers SystemicSystemic Local2-methylpropan-1-olDNEL DNEL Long term Inhalation DNELLong term Inhalation DNEL208 mg/m³ SostemicGeneral population SystemicLocal Systemic2-methylpropan-1-olDNEL DNEL Long term Inhalation DNELLong term Inhalation DNEL310 mg/m³ SostemicGeneral population SystemicLocal Systemic2-methylpropan-1-olDNEL DNEL Long term Inhalation DNELLong term Inhalation DNEL310		DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
A-methylpentan-2-oneDNEL DNEL DNEL DNEL Long term OralShort term Inhalation DNEL Long term Dermal DNEL Long term Dermal553.5 mg/m³ 4.2 mg/kg bw/day 4.2 mg/kg bw/day General population General population General population Systemic Systemic Systemic4-methylpentan-2-oneDNEL DNEL Long term Dermal DNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term In		DNEL	Long term Inhalation		Workers	
4-methylpentan-2-oneDNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL Long term Oral DNEL DNEL Long term Dermal DNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL DNEL DNEL Long term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL <b< td=""><td></td><td>DNEL</td><td>Short term Inhalation</td><td>553.5 mg/m³</td><td>Workers</td><td>Local</td></b<>		DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Local
DNEL DNEL DNEL DNELLong term Dermal Long term Dermal DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Short term Inhalation		Workers	Systemic
DNEL DNEL DNEL DNELLong term Dermal DNEL Long term Inhalation DNEL DNEL Long term Inhalation11.8 mg/kg bw/day 14.7 mg/m³Workers General population General populationSystemic LocalDNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNE	4-methylpentan-2-one	DNEL	Long term Oral	4.2 mg/kg bw/day	General population	Systemic
DNEL DNEL DNEL DNELLong term Dermal DNEL Long term Inhalation DNEL DNEL Long term Inhalation11.8 mg/kg bw/day 14.7 mg/m³Workers General population General populationSystemic LocalDNEL DNEL DNEL DNEL DNEL DNELLong term Inhalation DNEL Long term Inhalation DNEL14.7 mg/m³ B3 mg/m³General population WorkersLocal LocalDNEL DNEL DNELLong term Inhalation DNEL83 mg/m³ B3 mg/m³Workers WorkersLocal LocalDNEL DNEL DNELShort term Inhalation DNEL155.2 mg/m³ B6 neral populationGeneral population LocalLocal Local2-methylpropan-1-olDNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL Long term Inhalation208 mg/m³ B6 neral population Local 208 mg/m³Workers General population Local D0 mg/m³Local Local Local D0 mg/m³2-methylpropan-1-olDNEL DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL Long term Inhalation310 mg/m³ B6 mg/m³Workers General population Systemic Local D0 Systemic DNEL Long term Inhalation DNEL Long term Inhalation310 mg/m³ B6 mg/kg bw/day B6 meral population SystemicSystemic Systemic		DNEL	Long term Dermal	4.2 mg/kg bw/day	General population	Systemic
DNEL DNEL DNELLong term Inhalation DNEL Long term Inhalation DNEL14.7 mg/m³ mg/m³General population General populationLocal Systemic LocalDNEL DNELLong term Inhalation DNELLong term Inhalation DNEL14.7 mg/m³ Stort term Inhalation BNELWorkers SystemicLocal SystemicDNEL DNELShort term Inhalation DNELShort term Inhalation DNEL155.2 mg/m³ Stort term InhalationGeneral population LocalLocal Systemic2-methylpropan-1-olDNEL DNELShort term Inhalation DNEL208 mg/m³ Stort term InhalationWorkers Stort term InhalationLocal Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL208 mg/m³ Stort term InhalationWorkers Stort term InhalationSystemic Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL55 mg/m³ Stort term InhalationGeneral population LocalLocal Local2-methylpropan-1-olDNEL DNELLong term Oral DNEL1.6 mg/kg bw/dayGeneral population SystemicLocal Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL310 mg/m³ Stort term InhalationSystemic Stord2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL16 mg/kg bw/dayGeneral population SystemicLocal Systemic2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL16 mg/kg bw/dayGeneral population SystemicSystemic Systemic2-methylpropan-1-ol<		DNEL	Long term Dermal	11.8 mg/kg bw/day		Systemic
DNEL DNEL DNELLong term Inhalation Long term Inhalation DNEL83 mg/m³ 83 mg/m³Workers WorkersLocal Systemic2-methylpropan-1-olDNEL DNELShort term Inhalation DNEL155.2 mg/m³ 155.2 mg/m³General population General populationLocal Systemic2-methylpropan-1-olDNEL DNELShort term Inhalation DNEL208 mg/m³ SystemicWorkers General populationLocal Systemic2-methylpropan-1-olDNEL DNELShort term Inhalation DNEL208 mg/m³ SystemicWorkers General populationLocal Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL208 mg/m³ SystemicWorkers General populationLocal Local2-methylpropan-1-olDNEL DNEL DNELLong term Inhalation DNEL310 mg/m³ SystemicWorkers General populationLocal LocalDNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL <br< td=""><td></td><td>DNEL</td><td></td><td>14.7 mg/m³</td><td>General population</td><td>Local</td></br<>		DNEL		14.7 mg/m ³	General population	Local
DNEL DNEL DNELLong term Inhalation Short term Inhalation DNEL83 mg/m³ 155.2 mg/m³Workers General population LocalSystemic Local2-methylpropan-1-olDNEL DNELShort term Inhalation DNEL208 mg/m³ 208 mg/m³Workers WorkersLocal Systemic2-methylpropan-1-olDNEL DNELShort term Inhalation DNEL208 mg/m³ SystemicWorkers General populationLocal Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL55 mg/m³ SystemicGeneral population LocalLocal Dorkers2-methylbenzeneDNEL DNELLong term Inhalation DNEL310 mg/m³ SystemicWorkers General populationLocal SystemicDNEL DNELLong term Inhalation DNEL15 mg/m³ SystemicGeneral population SystemicSystemic SystemicDNEL DNEL DNELLong term Inhalation DNEL15 mg/m³ SystemicGeneral population SystemicSystemic SystemicDNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DN		DNEL	Long term Inhalation	14.7 mg/m ³	General population	Systemic
DNEL DNEL DNELShort term Inhalation Short term Inhalation DNEL155.2 mg/m³ 155.2 mg/m³General population General populationLocal Systemic2-methylpropan-1-olDNEL DNELShort term Inhalation DNEL208 mg/m³ 208 mg/m³Workers General populationLocal Systemic2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL55 mg/m³ 100 mg/m³General population WorkersLocal Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL55 mg/m³ 100 mg/m³General population Ung term Inhalation 100 mg/m³Local WorkersethylbenzeneDNEL DNELLong term Oral DNEL1.6 mg/kg bw/day 15 mg/m³General population General populationSystemic SystemicDNEL DNELLong term Inhalation DNEL15 mg/m³ 10 mg/m³General population SystemicSystemic SystemicDNEL DNEL DNELLong term Inhalation DNEL15 mg/m³ 180 mg/kg bw/dayWorkers WorkersSystemic Systemic		DNEL	Long term Inhalation	83 mg/m ³	Workers	Local
DNELShort term Inhalation155.2 mg/m³General populationSystemicDNELDNELShort term Inhalation208 mg/m³WorkersLocalDNELDNELShort term Inhalation208 mg/m³General populationLocalDNELLong term Inhalation55 mg/m³General populationLocalDNELLong term Inhalation310 mg/m³WorkersLocalDNELLong term Oral1.6 mg/kg bw/dayGeneral populationSystemicDNELLong term Inhalation15 mg/m³General populationSystemicDNELLong term Inhalation77 mg/m³WorkersSystemicDNELLong term Dermal180 mg/kg bw/dayWorkersSystemic		DNEL	Long term Inhalation	83 mg/m ³	Workers	Systemic
DNEL 2-methylpropan-1-olDNEL DNEL DNELShort term Inhalation Short term Inhalation DNEL208 mg/m³ 208 mg/m³ Cong term Inhalation Stort term Inhalation DNELWorkers Systemic Coral Stort term Inhalation Stort term Inhalation Stort term Inhalation Stort term Inhalation DNELWorkers Coral Ung term Inhalation Stort term Inhalation DNELLocal Local Coral Stort term Inhalation StoreethylbenzeneDNEL DNEL DNELLong term Oral DNEL DNEL1.6 mg/kg bw/day Long term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL 		DNEL	Short term Inhalation	155.2 mg/m ³	General population	Local
DNEL 2-methylpropan-1-olDNEL DNELShort term Inhalation Short term Inhalation DNEL208 mg/m³ 208 mg/m³Workers WorkersLocal Systemic General population UorkersLocal Local2-methylpropan-1-olDNEL DNELLong term Inhalation DNEL55 mg/m³ 310 mg/m³Workers General population General populationLocal LocalethylbenzeneDNEL DNELLong term Oral DNEL1.6 mg/kg bw/day 15 mg/m³General population General populationSystemic SystemicDNEL DNELLong term Inhalation DNEL15 mg/m³ Tr mg/m³Workers General populationSystemic Systemic		DNEL	Short term Inhalation	155.2 mg/m ³	General population	Systemic
2-methylpropan-1-olDNEL DNELShort term Inhalation Long term Inhalation DNEL208 mg/m³ S5 mg/m³ 310 mg/m³Workers General population WorkersSystemic Local UccalethylbenzeneDNEL DNELLong term Inhalation DNEL310 mg/m³ 1.6 mg/kg bw/day DNELWorkers General population SystemicLocal SystemicDNEL DNELLong term Inhalation DNEL15 mg/m³ T mg/m³ 180 mg/kg bw/dayWorkers General population Systemic		DNEL	Short term Inhalation	208 mg/m ³		Local
2-methylpropan-1-olDNELLong term Inhalation55 mg/m³General populationLocalDNELDNELLong term Inhalation310 mg/m³UorkersLocalethylbenzeneDNELLong term Oral1.6 mg/kg bw/dayGeneral populationSystemicDNELDNELLong term Inhalation15 mg/m³General populationSystemicDNELLong term Inhalation77 mg/m³WorkersSystemicDNELDNELLong term Dermal180 mg/kg bw/dayWorkersSystemic		DNEL	Short term Inhalation		Workers	Systemic
DNELLong term Inhalation310 mg/m³WorkersLocalethylbenzeneDNELLong term Oral1.6 mg/kg bw/dayGeneral populationSystemicDNELLong term Inhalation15 mg/m³General populationSystemicDNELLong term Inhalation77 mg/m³WorkersSystemicDNELLong term Dermal180 mg/kg bw/dayWorkersSystemic	2-methylpropan-1-ol	DNEL	Long term Inhalation		General population	
ethylbenzeneDNELLong term Oral1.6 mg/kg bw/dayGeneral populationSystemicDNELLong term Inhalation15 mg/m³General populationSystemicDNELLong term Inhalation77 mg/m³WorkersSystemicDNELLong term Dermal180 mg/kg bw/dayWorkersSystemic	, , , , , , , , , , , , , , , , , , ,	DNEL			• •	Local
DNELLong term Inhalation15 mg/m³General populationSystemicDNELLong term Inhalation77 mg/m³WorkersSystemicDNELLong term Dermal180 mg/kg bw/dayWorkersSystemic	ethylbenzene				General population	Systemic
DNELLong term Inhalation77 mg/m³WorkersSystemicDNELLong term Dermal180 mg/kg bw/dayWorkersSystemic		DNEL				
DNEL Long term Dermal 180 mg/kg bw/day Workers Systemic					• •	
DNEL Short term Inhalation 293 mg/m ³ Workers Local						

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail	
xylene	Fresh water	0.327 mg/l	-	
	Marine water	0.327 mg/l	-	
	Sewage Treatment Plant	6.58 mg/l	-	
	Fresh water sediment	12.46 mg/kg dwt	-	
	Marine water sediment	12.46 mg/kg dwt	-	
	Soil	2.31 mg/kg	-	
1-methoxy-2-propanol	Fresh water	10 mg/l	Assessment Factors	
	Marine water	1 mg/l	Assessment Factors	
	Sewage Treatment Plant		Assessment Factors	
	Fresh water sediment	41.6 mg/kg	Equilibrium Partitioning	
	Marine water sediment	4.17 mg/kg	Equilibrium Partitioning	
	Soil	2.47 mg/kg	Equilibrium Partitioning	
4-methylpentan-2-one	Fresh water	0.6 mg/l	Assessment Factors	
	Marine water	0.06 mg/l	Assessment Factors	
	Sewage Treatment Plant	27.5 mg/l	Assessment Factors	
	Fresh water sediment	8.27 mg/kg	Equilibrium Partitioning	
	Marine water sediment	0.83 mg/kg	Equilibrium Partitioning	
	Soil	1.3 mg/kg	Equilibrium Partitioning	
2-methylpropan-1-ol	Fresh water	0.4 mg/l	Assessment Factors	
English (GB)	English (GB) United Kingdom (UK) 7/16			

Code	: 00369891	Date of issue/Date of revision	: 9 November 2022
SIGMACON	IDUCTIVE 70 HARDENER		

SECTION 8: Exposure controls/personal protection

	Marine water	0.04 mg/l	Assessment Factors
	Sewage Treatment Plant	10 mg/l	Assessment Factors
	Fresh water sediment	•	
		1.56 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.156 mg/kg dwt	-
	Soil	0.076 mg/kg dwt	Equilibrium Partitioning
ethylbenzene	Fresh water	0.1 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	20 mg/kg	-

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

individual protection meda	
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 <u>Skin protection</u>	: Chemical splash goggles and face shield.
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: May be used: nitrile rubber Recommended: polyvinyl alcohol (PVA), butyl rubber, Viton®
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 anti-static 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	:

Code	: 00369891	Date of issue/Date of revision	: 9 November 2022
SIGMACON	DUCTIVE 70 HARDENER		

SECTION 8: Exposure controls/personal protection

	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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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.

1 Information on basic ph Appearance	iyoloal alla	chemical pro	oportioo		
Physical state	• 1 i	quid.			
Colour		ot available.			
Ddour		haracteristic.			
Odour threshold		ot available.			
Melting point/freezing poi	nt : M or	ay start to sol	following ingredient		: -84.7°C (-120.5°F) This is bas ntan-2-one. Weighted average:
nitial boiling point and boiling range		37.78°C (>100	,		
Flammability (solid, gas)	: lic	quid			
Upper/lower flammability explosive limits		•	n range: Lower: 1.48	8% Upper: 13	3.74% (1-methoxy-2-propanol)
Flash point	: C	losed cup: 24	.5°C (76.1°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	M	lethod
1-methoxy-2-propanol		270	518		
Decomposition temperatu pH	: N	ot applicable.			
Viscosity		••	insoluble in water. C): >21 mm²/s		
Solubility(ies)			<i>5</i>). <i>7</i> 21 mm /5		
Media		Result			Method
cold water		Not soluble			Ι
Miscible with water	:N tanol/ :N				
Partition coefficient: n-oc water Vapour pressure	:				
water	:	Vapour Pres	sure at 20°C	V	apour pressure at 50°C
water	: mm Hg	Vapour Pres	sure at 20°C Method	V mm Hg	apour pressure at 50°C kPa
water Vapour pressure		-			
water Vapour pressure Ingredient name	mm Hg	kPa 2.1			

English (GB)

Code : 00369891	Date of issue/Date of revision	: 9 November 2022
SIGMACONDUCTIVE 70 HARDENER		

SECTION 9: Physical and chemical properties

The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

Oxidising properties	: Product does not present an oxidizing hazard.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Stability and reactivity : No specific test data related to reactivity available for this product or its ingredients. **10.1 Reactivity**

10.1 Reactivity	
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
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-methoxypropanol	LC50 Inhalation Vapour	Rat	15000 ppm	4 hours
	LD50 Dermal	Rabbit	5660 mg/kg	-
	LD50 Oral	Rat	5.3 g/kg	-

Acute toxicity estimates

 Code
 <th::00369891</th>
 Date of issue/Date of revision
 : 9 November 2022

 SIGMACONDUCTIVE 70 HARDENER

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMACONDUCTIVE 70 HARDENER	N/A	14020.8	N/A	49	N/A
xylene	4300	1700	N/A	11	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
ethylbenzene	3500	17800	N/A	17.8	N/A
2-methoxypropanol	5300	5660	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-	
Conclusion/Summary	: Not available.					
Skin	There are no data available on	the mixture its	elf.			
Eyes	: There are no data available on	the mixture its	elf.			
Respiratory	: There are no data available on	the mixture its	elf.			
<u>Sensitisation</u>						
Conclusion/Summary						
Skin	: There are no data available on the mixture itself.					
Respiratory	: There are no data available on the mixture itself.					
<u>Mutagenicity</u>						
Conclusion/Summary	: There are no data available on	the mixture its	elf.			
Carcinogenicity						
Conclusion/Summary	: There are no data available on	the mixture its	elf.			
Reproductive toxicity						
	: There are no data available on	the mixture its	elf.			
<u>Teratogenicity</u>						
Conclusion/Summary	:					
	There are no data available on	the mixture itse	elf.			

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-methoxypropanol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Code: 00369891Date of issue/Date of revision: 9 November

SIGMACONDUCTIVE 70 HARDENER

SECTION 11: Toxicological information

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available.

of exposure Potential acute health effects

Eye contact

: Causes serious eye damage.

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

Skin contact : Causes skin irritation. Defatting to the skin.

: Can cause central nervous system (CNS) depression. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Potential chronic health effe Not available.		
Conclusion/Summary	: Not available.	
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking ar or dermatitis.	nd/
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	: No known significant effects or critical hazards.	
English (GB)	United Kingdom (UK) 1	12/16

Code

: 00369891 **SIGMACONDUCTIVE 70 HARDENER** Date of issue/Date of revision

: 9 November 2022

SECTION 11: Toxicological information

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia - Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish - Goldfish	96 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Conclusion/Summary	: Not available.	- I	•

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
4-methylpentan-2-one ethylbenzene	OECD 301F -	83 % - Readily - 28 79 % - Readily - 10		-	
Conclusion/Summary	: Not available.				
Product/ingredient name	Aquatic half-life		Photolysi	S	Biodegradability
xylene 4-methylpentan-2-one ethylbenzene	- - -		- - -		Readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	low
1-methoxy-2-propanol	<1	-	low
4-methylpentan-2-one	1.9	-	low
2-methylpropan-1-ol	1	-	low
ethylbenzene	3.6	79.43	low
2-methoxypropanol	-0.49	-	low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

Code : 00369891 SIGMACONDUCTIVE 70 HA	Date of issue/Date of revision	on : 9 November 2022
SECTION 13: Dispo	sal considerations	
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 com 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		ducts should at all times comply and waste disposal legislation spose of surplus and non-

Hazardous waste

: Yes.

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

all authorities with jurisdiction.

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.

disposed of untreated to the sewer unless fully compliant with the requirements of

Type of packaging	Waste catalogue	
Container	15 01 06	mixed packaging
Special precautions	taken when Empty conta residues ma container. I thoroughly i	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with ays, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	Ш	III	III	111
14.5 Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.
Tunnel code	: (D/E)
ADN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

Code	: 00369891	Date of issue/Date of revision	: 9 November 2022
SIGMACON	DUCTIVE 70 HARDENER		

SECTION 14: Transport information

14.7 Transport in bulk according to IMO

: Not available.

instruments

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.

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	: 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
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method

Full text of abbreviated H statements

			•	
Code SIGMACON	: 00369891 Date Date Date Date Date Date Date Date	ate of issue/Date of revision	: 9 November 2022	
SECTIO	N 16: Other information			
H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.		T		
H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.				

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H360D May damage the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

<u>History</u>

Date of issue/ Date of revision	: 11/9/2022
Date of previous issue	: No previous validation
Prepared by	: EHS
Version	: 1

<u>Disclaimer</u>

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.