

SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 20 December 2023

Version 10.02

Section 1. Identification

Product name : AMERCOAT 229T OXIDE RED DV7821

Product code : 00334018

Other means of identification : Not available.

Product type : Liquid.

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

Product use : Industrial applications, Used by spraying.

Use of the substance/
mixture : Coating.

Uses advised against : Not applicable.

Supplier : PPG Architectural Coatings Canada, Inc.
1550, rue Ampère, bureau 500
Boucherville (Québec) J4B 7L4
Canada
+1 450-655-3121

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
SETIQ Interior de la República: 800-00-214-00 (México)
SETIQ Ciudad de México: (55) 5559-1588 (México)

Technical Phone Number : 888-977-4762

Section 2. Hazard identification

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1A
CARCINOGENICITY - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Health Hazards Not Otherwise Classified - Category 1

GHS label elements

Hazard pictograms :



Section 2. Hazard identification

Signal word	: Danger
Hazard statements	: Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer. Prolonged or repeated contact may dry skin and cause irritation.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. 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 breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Photosensitive agents : In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 18.8% (oral), 27.5% (dermal), 34% (inhalation)

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: AMERCOAT 229T OXIDE RED DV7821
Other means of identification	: Not available.

CAS number/other identifiers

Section 3. Composition/information on ingredients

Ingredient name	Synonyms	% (w/w)	CAS number
Nepheline syenite	potassium, sodium, oxido-oxo-oxoalumanyloxysilane	10 - 30*	37244-96-5
heptan-2-one	methyl amyl ketone; 2-Heptanone; Methyl n-amyl ketone; METHYL (n-AMYL) KETONE; n-Amyl methyl ketone; Amyl methyl ketone; METHYL PENTYL KETONE; Methyl (namyl) ketone; KETONE C7; methyl-n-amyl-ketone; Ketone C-7	7 - 13*	110-43-0
2-methoxy-1-methylethyl acetate	2-Propanol, 1-methoxy-, 2-acetate; Propylene glycol monomethyl ether acetate; 2-Propanol, 1-methoxy-, acetate; 1-Methoxy-2-propanol, acetate; 2-Acetoxy-1-methoxypropane; Propylene glycol monoethyl ether acetate; Propylene glycol methyl ether acetate; 1-Methoxypropyl-2-acetate; 1-Methoxy-2-propanol acetate; light stabiliser containing: — branched and linear alkyl esters of 3-(2H-benzotriazolyl)-5-(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid (CAS RN 127519-17-9), and — 1-methoxy-2-propyl acetate (CAS RN 108-65-6); Acetic acid, 2-methoxy-1-methylethyl ester	5 - 10*	108-65-6
diiron trioxide	Iron oxide (Fe ₂ O ₃); Iron oxide; C.I. Pigment Red 101; Ferric oxide; Iron oxide, anhydrous; Iron oxide, red; Iron sesquioxide; Iron trioxide; iron oxide pigment; Iron oxide dust and fume (as Fe); Rouge	5 - 10*	1309-37-1
2,2-bis(acryloyloxymethyl)butyl acrylate	2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate; trimethylolpropane triacrylate; 2-Propenoic acid, 1,1'-[2-ethyl-2-[[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester; 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester; Trimethylolpropane, triacrylate; 2,2-bis[(acryloyloxy)methyl]butyl prop-2-enoate; 2-acryloyloxymethyl-2-ethyltrimethylene diacrylate; Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol; trimethylolpropane triacrylate, technical grade; 2-Ethyl-2-(hydroxymethyl)-1,3-propanediol triacrylate; Acrylic acid 1,1,1-(trihydroxymethyl)propane triester	1 - 5*	15625-89-5
butan-1-ol	n-butanol; 1-Butanol; n-BUTYL ALCOHOL; n-Propyl carbinol; 1-Hydroxybutane; Butyl alcohol; 1-Butanol	1 - 5*	71-36-3

Section 3. Composition/information on ingredients

Solvent naphtha (petroleum), heavy arom.	(l); n-Butyl alcohol (l); METHYLOLPROPANE; Butyl hydroxide; 1-BUTYL ALCOHOL	1 - 5*	64742-94-5
n-butyl acetate	Kerosine - unspecified; Solvent naphtha, petroleum, heavy aromatic; (Polyethyl) benzenes; Solvent naphtha, petroleum, heavy arom. - ultra low naphthalene; Heavy aromatic solvent naphtha; Solvent naphtha; Solvent naphtha (petroleum), heavy aromatic; Heavy solvent naphtha; Solvent naphtha (petroleum), heavy arom; AROMATIC PETROLEUM DISTILLATE; Solvent Naphtha (petroleum)	0.5 - 1.5*	123-86-4
1,4-dihydroxybenzene	Acetic acid, butyl ester; Butyl Acetate; n-Butyl-acetate; Butyl ethanoate; n-Butyl ester of acetic acid; product composed of hydrocarbons (predominantly paraffinic and naphthenic) and n-butyl acetate; 1-butyl acetate; 1-Acetoxybutane; Butyl ester, Acetic acid; normal butyl acetate; Acetic acid, n-butyl ester	0.1 - 1*	123-31-9
naphthalene	hydroquinone; quinol; 1,4-Benzenediol; p-Dihydroxybenzene; Dihydroxybenzene; p-Benzenediol; 1,4-benzenediol; Hydroquinol; Eldopaque; Black and white bleaching cream; Aida	0.1 - 1*	91-20-3
ethylbenzene	White tar; Tar camphor; Naphthalin; naphthalene, pure; naphthalene, crude; MOTH FLAKES; Naphthalene (8CA & 9CA); naphthalene [PAH, POM]; NAPHTHALENE, REFINED; NAPHTHALENE, MOLTEN; naphtalene	0.1 - 1*	100-41-4
maleic anhydride	Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropylloxycarbonyl or chloropropylloxycarbonyl) benzene	<0.1*	108-31-6

Section 3. Composition/information on ingredients

*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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 and hence require reporting in this section.

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

Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary 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.
In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
- 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 recognized skin cleanser. Do NOT use solvents or thinners.
In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- 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. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Section 4. First-aid measures

Skin contact : Adverse symptoms may include the following:
irritation
redness
dryness
cracking

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

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

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. 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.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon oxides
metal oxide/oxides

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

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

For emergency responders : If specialized 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".

Environmental precautions : Avoid dispersal of spilled 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).

Methods and materials for containment 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 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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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 ingest. Avoid breathing vapor or mist. 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.

Special precautions : Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

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.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Do not store above the following temperature: 50°C (122°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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Nepheline syenite	CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m ³ 8 hours. Form: Total dust
heptan-2-one	CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. OEL: 233 mg/m ³ 8 hours. OEL: 50 ppm 8 hours.
	CA British Columbia Provincial (Canada, 6/2022). TWA: 50 ppm 8 hours.
	CA Ontario Provincial (Canada, 6/2019). TWA: 115 mg/m ³ 8 hours. TWA: 25 ppm 8 hours.
	CA Quebec Provincial (Canada, 6/2022). TWAEV: 233 mg/m ³ 8 hours. TWAEV: 50 ppm 8 hours.
	CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
2-methoxy-1-methylethyl acetate	CA British Columbia Provincial (Canada, 6/2022). STEL: 75 ppm 15 minutes. TWA: 50 ppm 8 hours.
	CA Ontario Provincial (Canada, 6/2019). TWA: 270 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
diiron trioxide	CA Alberta Provincial (Canada, 6/2018). OEL: 5 mg/m ³ , (as Fe) 8 hours. Form: Respirable
	CA Ontario Provincial (Canada, 6/2019). TWA: 5 mg/m ³ 8 hours. Form: Respirable particulate matter.
	CA British Columbia Provincial (Canada, 6/2022). TWA: 10 mg/m ³ 8 hours. Form: Total dust
	CA Quebec Provincial (Canada, 6/2022). TWAEV: 5 mg/m ³ , (as Fe) 8 hours. Form: dust and fume
	CA Saskatchewan Provincial (Canada,

Section 8. Exposure controls/personal protection

2,2-bis(acryloyloxymethyl)butyl acrylate
butan-1-ol

7/2013).

STEL: 10 mg/m³, (measured as Fe) 15 minutes. Form: dust and fume

TWA: 5 mg/m³, (measured as Fe) 8 hours.
Form: dust and fume

None.

CA British Columbia Provincial (Canada, 6/2022).

C: 30 ppm 15 minutes.

TWA: 15 ppm 8 hours.

CA Ontario Provincial (Canada, 6/2019).

TWA: 20 ppm 8 hours.

CA Quebec Provincial (Canada, 6/2022).

Absorbed through skin.

STEV: 152 mg/m³ 15 minutes.

STEV: 50 ppm 15 minutes.

CA Alberta Provincial (Canada, 6/2018).

Skin sensitizer.

OEL: 60 mg/m³ 8 hours.

OEL: 20 ppm 8 hours.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 30 ppm 15 minutes.

TWA: 20 ppm 8 hours.

None.

CA Alberta Provincial (Canada, 6/2018).

Skin sensitizer.

OEL: 950 mg/m³ 15 minutes.

OEL: 200 ppm 15 minutes.

OEL: 713 mg/m³ 8 hours.

OEL: 150 ppm 8 hours.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 200 ppm 15 minutes.

TWA: 150 ppm 8 hours.

CA Ontario Provincial (Canada, 6/2019).

[butyl acetates, all isomers]

STEL: 150 ppm 15 minutes.

TWA: 50 ppm 8 hours.

CA British Columbia Provincial (Canada, 6/2022). [butyl acetate, all isomers]

STEL: 150 ppm 15 minutes.

TWA: 50 ppm 8 hours.

CA Quebec Provincial (Canada, 6/2022).

[butyl acetates (all isomers)]

STEV: 150 ppm 15 minutes.

TWAEV: 50 ppm 8 hours.

Solvent naphtha (petroleum), heavy arom.
n-butyl acetate

1,4-dihydroxybenzene

CA Alberta Provincial (Canada, 6/2018).

OEL: 2 mg/m³ 8 hours.

CA British Columbia Provincial (Canada, 6/2022). Skin sensitizer.

TWA: 1 mg/m³ 8 hours.

CA Ontario Provincial (Canada, 6/2019).

TWA: 1 mg/m³ 8 hours.

CA Quebec Provincial (Canada, 6/2022).

Section 8. Exposure controls/personal protection

naphthalene

Skin sensitizer.TWAEV: 1 mg/m³ 8 hours.**CA Saskatchewan Provincial (Canada, 7/2013).**STEL: 4 mg/m³ 15 minutes.TWA: 2 mg/m³ 8 hours.**CA Alberta Provincial (Canada, 6/2018).****Absorbed through skin.**OEL: 79 mg/m³ 15 minutes.

OEL: 15 ppm 15 minutes.

OEL: 52 mg/m³ 8 hours.

OEL: 10 ppm 8 hours.

CA British Columbia Provincial (Canada, 6/2022). Absorbed through skin.

TWA: 10 ppm 8 hours.

CA Ontario Provincial (Canada, 6/2019).**Absorbed through skin.**

TWA: 10 ppm 8 hours.

CA Quebec Provincial (Canada, 6/2022).**Absorbed through skin.**

TWAEV: 10 ppm 8 hours.

CA Saskatchewan Provincial (Canada, 7/2013).**Absorbed through skin.**

STEL: 15 ppm 15 minutes.

TWA: 10 ppm 8 hours.

ethylbenzene

CA Alberta Provincial (Canada, 6/2018).OEL: 543 mg/m³ 15 minutes.

OEL: 125 ppm 15 minutes.

OEL: 434 mg/m³ 8 hours.

OEL: 100 ppm 8 hours.

CA British Columbia Provincial (Canada, 6/2022).

TWA: 20 ppm 8 hours.

CA Ontario Provincial (Canada, 6/2019).

TWA: 20 ppm 8 hours.

CA Quebec Provincial (Canada, 6/2022).

TWAEV: 20 ppm 8 hours.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 125 ppm 15 minutes.

TWA: 100 ppm 8 hours.

maleic anhydride

CA Ontario Provincial (Canada, 6/2019).**Skin sensitizer.**TWA: 0.01 mg/m³ 8 hours. Form: Inhalable fraction and vapour.**CA Quebec Provincial (Canada, 6/2022).****Skin sensitizer. Inhalation sensitizer.**TWAEV: 0.01 mg/m³ 8 hours. Form: inhalable dust and vapor fraction**CA Alberta Provincial (Canada, 6/2018).**OEL: 0.4 mg/m³ 8 hours.

OEL: 0.1 ppm 8 hours.

CA British Columbia Provincial (Canada, 6/2022). Skin sensitizer. Inhalation

Section 8. Exposure controls/personal protection

sensitizer.

TWA: 0.1 ppm 8 hours.

CA Saskatchewan Provincial (Canada, 7/2013). Skin sensitizer.

STEL: 0.3 ppm 15 minutes.

TWA: 0.1 ppm 8 hours.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : 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.

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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Chemical splash goggles.

Skin protection

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.

Gloves : polyethylene butyl rubber

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.

Section 8. Exposure controls/personal protection

- Respiratory 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.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Liquid.
Color : Red.
Odor : Characteristic.
Odor threshold : Not available.
pH : Not applicable.
Melting point : Not available.
Boiling point : >37.78°C (>100°F)
Flash point : Closed cup: 42.22°C (108°F)
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Flammability : Not available.
Lower and upper explosive (flammable) limits : Not available.
Evaporation rate : 0.39 (butyl acetate = 1)
Vapor pressure : 0.44 kPa (3.3 mm Hg)
Vapor density : Not available.
Relative density : 1.31
Density (lbs / gal) : 10.93

Media	Result
cold water	Not soluble

- Solubility(ies)** : Not applicable.
Partition coefficient: n-octanol/water : Not applicable.
Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility : 41% (v/v), 27.196% (w/w)
% Solid. (w/w) : 72.804

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Section 10. Stability and reactivity

Refer to protective measures listed in sections 7 and 8.

Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products : Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Nepheline syenite	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l	4 hours
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
	LD50 Dermal	Rabbit	5170 mg/kg	-
2,2-bis(acryloyloxymethyl) butyl acrylate	LD50 Oral	Rat	5.19 g/kg	-
	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
butan-1-ol	LD50 Oral	Rat	790 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
	LD50 Oral	Rat	>5 g/kg	-
Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LD50 Oral	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
n-butyl acetate	LD50 Oral	Rat	10.768 g/kg	-
	LD50 Oral	Rat	302 mg/kg	-
	LD50 Dermal	Rabbit	>20 g/kg	-
1,4-dihydroxybenzene naphthalene	LD50 Oral	Rat	490 mg/kg	-
	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
ethylbenzene	LD50 Oral	Rat	3.5 g/kg	-
	LD50 Dermal	Rabbit	2620 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-

Conclusion/Summary : There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2-bis(acryloyloxymethyl) butyl acrylate	Skin - Irritant	Rabbit	-	-	-

Conclusion/Summary

Section 11. Toxicological information

- Skin** : There are no data available on the mixture itself.
Eyes : There are no data available on the mixture itself.
Respiratory : There are no data available on the mixture itself.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
2,2-bis(acryloyloxymethyl)butyl acrylate	skin	Rabbit	Sensitizing

- Skin** : There are no data available on the mixture itself.
Respiratory : There are no data available on the mixture itself.

Mutagenicity

- Conclusion/Summary** : There are no data available on the mixture itself.

Carcinogenicity

- Conclusion/Summary** : There are no data available on the mixture itself.

Classification

Product/ingredient name	OSHA	IARC	NTP
Iron trioxide	-	3	-
2,2-bis(acryloyloxymethyl)butyl acrylate	-	2B	-
1,4-dihydroxybenzene	-	3	-
naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.
ethylbenzene	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

Reproductive toxicity

- Conclusion/Summary** : There are no data available on the mixture itself.

Teratogenicity

- Conclusion/Summary** : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
heptan-2-one	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
1,4-dihydroxybenzene	Category 2	-	-
naphthalene	Category 2	-	-
ethylbenzene	Category 2	-	hearing organs
maleic anhydride	Category 1	inhalation	respiratory system

Target organs : Contains material which causes damage to the following organs: brain.
Contains material which may cause damage to the following organs: blood, kidneys, lungs, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), heavy arom. ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- 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. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- 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
redness
dryness
cracking
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Section 11. Toxicological information

Conclusion/Summary : There are no data available on the mixture itself. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate effects : There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Long term exposure

Potential immediate effects : There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : May cause 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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
AMERCOAT 229T OXIDE RED DV7821	7494.2	102698.2	N/A	88.3	7.9
heptan-2-one	1600	10206	N/A	16.7	1.5
2-methoxy-1-methylethyl acetate	6190	N/A	N/A	30	N/A
diiron trioxide	10000	N/A	N/A	N/A	N/A
2,2-bis(acryloyloxymethyl)butyl acrylate	5190	5170	N/A	N/A	N/A
butan-1-ol	790	3400	N/A	24	N/A
n-butyl acetate	10768	N/A	N/A	N/A	N/A
1,4-dihydroxybenzene	302	N/A	N/A	N/A	N/A
naphthalene	490	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

Section 11. Toxicological information

maleic anhydride	400	2620	N/A	N/A	N/A
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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
2,2-bis(acryloyloxymethyl) butyl acrylate	Acute LC50 0.87 mg/l	Fish	96 hours
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
heptan-2-one	OECD 310	69 % - Readily - 28 days	-	-
2-methoxy-1-methylethyl acetate	-	83 % - Readily - 28 days	-	-
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
heptan-2-one	-	-	Readily
2-methoxy-1-methylethyl acetate	-	-	Readily
n-butyl acetate	-	-	Readily
ethylbenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
heptan-2-one	2.26	-	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
2,2-bis(acryloyloxymethyl) butyl acrylate	0.67	-	Low
butan-1-ol	1	-	Low
Solvent naphtha (petroleum), heavy arom.	2.8 to 6.5	-	High
n-butyl acetate	2.3	-	Low
1,4-dihydroxybenzene	0.59	-	Low
naphthalene	3.4	85.11	Low
ethylbenzene	3.6	79.43	Low
maleic anhydride	-2.78	-	Low

Section 12. Ecological information

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

Section 14. Transport information

	TDG	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	☑ (2,2-bis(acryloyloxymethyl) butyl acrylate)	☑ (2,2-bis(acryloyloxymethyl) butyl acrylate)	Not applicable.

Additional information

- TDG** : The marine pollutant mark is not required when transported by road or rail.
- 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.

Section 14. Transport information

Special precautions for user : **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.

Transport in bulk according to IMO instruments : Not applicable.

Proof of classification statement : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).

Section 15. Regulatory information

National Inventory List

Canada inventory (DSL) : All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * **Flammability** : 2 **Physical hazards** : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 3 **Flammability** : 2 **Instability** : 0

Date of issue/Date of revision 20 December 2023

Organization that prepared the SDS : EHS

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

☑ Indicates information that has changed from previously issued version.

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