


# SAFETY DATA SHEET



3369-3380 CombiColor Anti-Rust Primer Aerosol

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

### 1.1 Product identifier

**Product name** : 3369-3380 CombiColor Anti-Rust Primer Aerosol  
**Product description** : Aerosol. Paint  
**Product type** : Aerosol.  
**UFI** :  AT2-V0GR-W00P-JFQF  
**Product code** : ROI0280

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

Identified uses	
Consumer Industrial Professional	
Uses advised against	Reason
None identified.	-

### 1.3 Details of the supplier of the safety data sheet

RUST-OLEUM EUROPE  
Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium  
Telephone no.: +32 (0) 13 460 200  
Fax no.: +32 (0) 13 460 201

Tor Coatings Limited  
Unit 21, White Rose Way, Follingsby Park, Gateshead, Tyne & Wear, NE10 8YX United Kingdom  
Telephone no.: +44 (0) 191 4106611  
Fax no.: +44 (0) 191 4920125  
enquiries@tor-coatings.com

**e-mail address of person responsible for this SDS** : rpmeurohas@rustoleum.eu

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

#### Supplier

Telephone number United Kingdom: : +44 870 8200418 / +44 2038073798  
Great Britain  
Hours of operation : 24 / 7

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to UK CLP/GHS

Aerosol 1, H222, H229  
STOT SE 3, H336

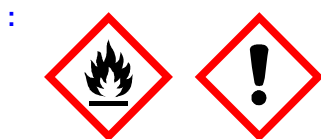
The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.  
See Section 16 for the full text of the H statements declared above.

## SECTION 2: Hazards identification

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

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: H222, H229 - Extremely flammable aerosol. Pressurised container: may burst if heated.  
H336 - May cause drowsiness or dizziness.

#### Precautionary statements

##### General

: P103 - Read carefully and follow all instructions.  
P102 - Keep out of reach of children.  
P101 - If medical advice is needed, have product container or label at hand.

##### Prevention

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P271 - Use only outdoors or in a well-ventilated area.  
P251 - Do not pierce or burn, even after use.

##### Response

: Not applicable.

##### Storage

: P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

##### Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Hazardous ingredients

: n-butyl acetate  
Ethylacetate  
1-methoxy-2-propanol

#### Supplemental label elements

: Not applicable.

#### Supplemental label elements : Detergents - Regulation (EC) No 907/2006

: 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 requirements

##### 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 a vPvB.

**SECTION 2: Hazards identification**

**Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.** : Not applicable

**Other hazards which do not result in classification** : None known.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Dimethyl ether	REACH #: 01-2119472128-37 EC: 204-065-8 CAS: 115-10-6 Index: 603-019-00-8	≥50 - ≤75	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	[2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤14	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Ethylacetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤5,3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119457273-39 CAS: 64742-48-9	≤0,2	Asp. Tox. 1, H304 EUH066  <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

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.

Type

[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.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

## SECTION 4: First aid measures

- waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
irritation  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Extremely flammable aerosol. 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. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

## SECTION 5: Firefighting measures

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.
- Additional information** : Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated. Bursting aerosol containers may be propelled from a fire at high speed.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material 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. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

### 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.

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Empty containers retain product residue and can be hazardous.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store away 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. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

##### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P3a	150 tonnes	500 tonnes

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
dimethyl ether	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 958 mg/m <sup>3</sup> . STEL 15 minutes: 500 ppm. TWA 8 hours: 400 ppm. TWA 8 hours: 766 mg/m <sup>3</sup> .
n-butyl acetate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 966 mg/m <sup>3</sup> . STEL 15 minutes: 200 ppm. TWA 8 hours: 724 mg/m <sup>3</sup> . TWA 8 hours: 150 ppm.
Ethylacetate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 400 ppm. TWA 8 hours: 200 ppm. STEL 15 minutes: 1468 mg/m <sup>3</sup> . TWA 8 hours: 734 mg/m <sup>3</sup> .
1-methoxy-2-propanol	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin. STEL 15 minutes: 560 mg/m <sup>3</sup> .

## SECTION 8: Exposure controls/personal protection

STEL 15 minutes: 150 ppm.  
TWA 8 hours: 375 mg/m<sup>3</sup>.  
TWA 8 hours: 100 ppm.

### Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

Product/ingredient name	Result	Value	Effects
dimethyl ether	DNEL - General population - Long term - Inhalation	471 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	1894 mg/m <sup>3</sup>	Effects: Systemic
n-butyl acetate	DNEL - Workers - Long term - Dermal	7 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Consumers - Long term - Oral	3,4 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Short term - Inhalation	960 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Short term - Inhalation	960 mg/m <sup>3</sup>	Effects: Local
	DNEL - Workers - Long term - Inhalation	480 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	480 mg/m <sup>3</sup>	Effects: Local
	DNEL - General population - Consumers - Short term - Inhalation	859,7 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - General population - Consumers - Short term - Inhalation	859,7 mg/m <sup>3</sup>	Effects: Local
	DNEL - General population - Consumers - Long term - Inhalation	102,34 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - General population - Consumers - Long term - Inhalation	102,34 mg/m <sup>3</sup>	Effects: Local
	DNEL - General population - Consumers - Long term - Dermal	3,4 mg/kg bw/day	Effects: Systemic
	DNEL - General population -	2 mg/kg bw/day	Effects:

**SECTION 8: Exposure controls/personal protection**

Ethylacetate	Long term - Oral		Systemic
	DNEL - General population - Short term - Oral	2 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Long term - Dermal	3,4 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Short term - Dermal	6 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Long term - Dermal	7 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Short term - Dermal	11 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Long term - Inhalation	12 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - General population - Long term - Inhalation	35,7 mg/m <sup>3</sup>	Effects: Local
	DNEL - Workers - Long term - Inhalation	48 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - General population - Short term - Inhalation	300 mg/m <sup>3</sup>	Effects: Local
	DNEL - General population - Short term - Inhalation	300 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	300 mg/m <sup>3</sup>	Effects: Local
	DNEL - Workers - Short term - Inhalation	600 mg/m <sup>3</sup>	Effects: Local
	DNEL - Workers - Short term - Inhalation	600 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Short term - Inhalation	1468 mg/m <sup>3</sup>	Effects: Local
	DNEL - Workers - Short term - Inhalation	1468 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	734 mg/m <sup>3</sup>	Effects: Local
	DNEL - Workers - Long term - Inhalation	34 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Long term - Dermal	63 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Consumers - Short term - Inhalation	734 mg/m <sup>3</sup>	Effects: Local
DNEL - General population - Consumers - Short term - Inhalation	734 mg/m <sup>3</sup>	Effects: Systemic	
DNEL - General population -	367 mg/m <sup>3</sup>	Effects: Local	

**SECTION 8: Exposure controls/personal protection**

1-methoxy-2-propanol	<b>Consumers - Long term - Inhalation</b>		
	<b>DNEL - General population - Consumers - Long term - Inhalation</b>	367 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Dermal</b>	37 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Oral</b>	4,5 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Oral</b>	4,5 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Dermal</b>	37 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Dermal</b>	63 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Inhalation</b>	367 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - General population - Long term - Inhalation</b>	367 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Short term - Inhalation</b>	734 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - General population - Short term - Inhalation</b>	734 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Inhalation</b>	734 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - Workers - Long term - Inhalation</b>	734 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Short term - Inhalation</b>	1468 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - Workers - Short term - Inhalation</b>	1468 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Short term - Inhalation</b>	553,5 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - Workers - Long term - Inhalation</b>	369 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Dermal</b>	50,6 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Inhalation</b>	43,9 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Dermal</b>	18,1 mg/kg bw/day	<u>Effects:</u> Systemic
<b>DNEL - General population -</b>	3,3 mg/kg bw/	<u>Effects:</u>	

## SECTION 8: Exposure controls/personal protection

hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics	<b>Consumers - Long term - Oral</b>	day	Systemic
	<b>DNEL - Workers - Long term - Inhalation</b>	369 mg/m <sup>3</sup>	Effects: Systemic
	<b>DNEL - Workers - Short term - Inhalation</b>	553,5 mg/m <sup>3</sup>	Effects: Systemic
	<b>DNEL - Workers - Long term - Dermal</b>	208 mg/kg bw/day	Effects: Systemic
	<b>DNEL - General population - Long term - Dermal</b>	125 mg/kg bw/day	Effects: Systemic
	<b>DNEL - General population - Long term - Inhalation</b>	185 mg/m <sup>3</sup>	Effects: Systemic
	<b>DNEL - General population - Long term - Oral</b>	125 mg/m <sup>3</sup>	Effects: Systemic
	<b>DNEL - Workers - Long term - Inhalation</b>	871 mg/m <sup>3</sup>	Effects: Systemic

### PNECs

<b>Product/ingredient name</b>	<b>Result</b>	<b>Value</b>	<b>Remarks</b>
n-butyl acetate	<b>Fresh water</b>	0,18 mg/l	-
	<b>Marine</b>	0,018 mg/l	-
	<b>Fresh water sediment</b>	0,981 mg/kg	-
	<b>Marine water sediment</b>	0,0981 mg/kg	-
	<b>Soil</b>	0,0903 mg/kg	-
	<b>Sewage Treatment Plant</b>	35,6 mg/l	-
Ethylacetate	<b>Fresh water</b>	0,24 mg/l	-
	<b>Marine</b>	0,024 mg/l	-
	<b>Fresh water sediment</b>	1,15 mg/kg	-
	<b>Marine water sediment</b>	0,115 mg/kg	-
	<b>Soil</b>	0,148 mg/kg	-
	<b>Sewage Treatment Plant</b>	650 mg/l	-
1-methoxy-2-propanol	<b>Fresh water</b>	10 mg/l	-
	<b>Fresh water sediment</b>	41,6 mg/l	-
	<b>Marine water sediment</b>	4,17 mg/l	-
	<b>Soil</b>	2,47 mg/l	-
	<b>Sewage Treatment Plant</b>	100 mg/l	-

### 8.2 Exposure controls

**SECTION 8: Exposure controls/personal protection**

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

**Individual protection measures**

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

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**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. > 8 hours (breakthrough time): polyethylene (PE), polyvinyl alcohol (PVA)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. 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.

**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. Refer to British Standard BS EN 1149 for further information on material and design requirements and test methods. Recommended: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

**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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour filter (Type A) particulate filter (EN 140)

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

**SECTION 9: Physical and chemical properties**

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

**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	: Liquid. [Aerosol.]
<b>Colour</b>	: Grey. Red.
<b>Odour</b>	: Solvent-like [Slight]
<b>Odour threshold</b>	: Not available.
<b>Melting point/freezing point</b>	: Not applicable.
<b>Initial boiling point and boiling range</b>	: Not available.

Ingredient name	°C	°F	Method
dimethyl ether	-24,82	-12,7	

**Flammability (solid, gas)** : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.  
Slightly flammable in the presence of the following materials or conditions: shocks and mechanical impacts.  
In use, may form flammable/explosive vapour-air mixture. Vapour may travel a considerable distance to source of ignition and flash back.

**Lower and upper explosion limit** : Lower: 2,47% [Calculated (Le Chatelier mixture rule)]  
Upper: 16,49% [Calculated (Le Chatelier mixture rule)]

**Flash point** : Closed cup: -40°C (-40°F) [Literature dimethyl ether]

**Auto-ignition temperature** : 350°C (662°F) [dimethyl ether]

**Decomposition temperature** : Not applicable.

**pH** : Not applicable.

**pH : Justification** : Product is non-soluble (in water).

**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): Not available.

**Solubility(ies)** :

Media	Result
cold water	Not soluble
hot water	Not soluble

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/ water** : Not applicable.

**Vapour pressure** : 513,3 kPa (3850 mm Hg) [calculated. dimethyl ether]

**Evaporation rate** : Not available.

**Relative density** : Not available.

**Density** : 0,86 g/cm<sup>3</sup> [20°C (68°F)] [DIN 53217]

**Vapour density** : >1 [Air = 1]

**Explosive properties** : Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.  
Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated.  
Bursting aerosol containers may be propelled from a fire at high speed.

**Oxidising properties** : Not available.

**Particle characteristics**

**Median particle size** : Not applicable.

## SECTION 9: Physical and chemical properties

### 9.2 Other information

**Heat of combustion** : 21,78 kJ/g

#### Aerosol product

**Type of aerosol** : Spray

## SECTION 10: Stability and reactivity

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

**10.2 Chemical stability** : The product is stable.

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

**10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**10.5 Incompatible materials** : No specific data.

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Value
dimethyl ether	<b>Rat - Inhalation - LC50 Gas.</b>	308000 mg/m <sup>3</sup> [1 hours]
	<b>Mouse - Inhalation - LC50 Gas.</b>	386 ppm [0,5 hours]
	<b>Rat - Inhalation - LC50 Vapour</b>	309 g/m <sup>3</sup> [4 hours]
	<b>Rat - Inhalation - LC50 Gas.</b>	164000 ppm [4 hours]
n-butyl acetate	<b>Rat - Oral - LD50</b>	14000 mg/kg
	<b>Rat - Inhalation - LC50 Vapour</b>	>21 mg/l [4 hours]
	<b>Rat - Inhalation - LC50 Vapour</b>	9700 mg/m <sup>3</sup> [4 hours]
Ethylacetate	<b>Rabbit - Oral - LD50</b>	4935 mg/kg
	<b>Rat - Oral - LD50</b>	5620 mg/kg
	<b>Mouse - Oral - LD50</b>	4,1 g/kg
	<b>Rat - Inhalation - LC50 Vapour</b>	>22,5 mg/l [6 hours]
1-methoxy-2-propanol	<b>Mouse - Oral - LD50</b>	11700 mg/kg
	<b>Rabbit - Dermal - LD50</b>	13 g/kg
	<b>Rat - Inhalation - LC50 Vapour</b>	30,02 mg/l [4 hours]

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

## 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)
dimethyl ether	N/A	N/A	164000	309	N/A

### Skin corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

#### **Ingredient name**

n-butyl acetate  
1-methoxy-2-propanol

#### **Conclusion/Summary**

Non-irritating to the skin.  
Non-irritating to the skin.

### Serious eye damage/eye irritation

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

#### **Ingredient name**

n-butyl acetate  
1-methoxy-2-propanol

#### **Conclusion/Summary**

Non-irritating to the eyes.  
Non-irritating to the eyes.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : May cause drowsiness or dizziness.

### Respiratory or skin sensitization

Not available.

### **Skin**

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

#### **Ingredient name**

n-butyl acetate  
1-methoxy-2-propanol

#### **Conclusion/Summary**

Non-sensitiser to skin.  
Non-sensitiser to skin.

### **Respiratory**

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

## SECTION 11: Toxicological information

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

#### **Product/ingredient name**

n-butyl acetate  
Ethylacetate  
1-methoxy-2-propanol

#### **Result**

STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H336 (Narcotic effects)

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

#### **Product/ingredient name**

hydrocarbons, C10-C13, n-/ iso-/ cyclo-  
alkanes, < 2% aromatics

#### **Result**

ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation, Eyes.  
Routes of entry not anticipated: Oral.

### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
irritation  
redness  
**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

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

#### **Short term exposure**

- Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### **Long term exposure**

- Potential immediate effects** : Not available.

## SECTION 11: Toxicological information

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

### Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species
n-butyl acetate	<b>Acute - EC50 - Fresh water</b> 44 mg/l [48 hours]	Daphnia spec. - Daphnia spec.
	<b>Acute - EC50 - Fresh water</b> 397 mg/l [72 hours]	Algae
	<b>Acute - LC50 - Fresh water</b> 18 mg/l [96 hours]	Fish - Fathead minnow
	<b>Chronic - NOEC - Fresh water</b> 23 mg/l [21 days]	Daphnia spec. - Daphnia spec.
	<b>Acute - LC50 - Marine water</b> 32 mg/l [48 hours]	Crustaceans - Brine shrimp
Ethylacetate	<b>Acute - EC50</b> 5600 mg/l [72 hours]	Algae - Algae
	<b>Acute - EC50 - Fresh water</b> 165 mg/l [48 hours]	Daphnia spec. - Water flea
	<b>Chronic - NOEC - Fresh water</b> 2,4 mg/l [21 days]	Daphnia spec. - Water flea
	<b>Acute - LC50 - Fresh water</b> 230 mg/l [48 hours]	Fish - Fathead minnow
	<b>Chronic - NOEC - Fresh water</b> 6,9 mg/l [6,9 hours]	Fish - Fathead minnow
	<b>Chronic - NOEC - Fresh water</b> 2,4 mg/l [21 days]	Daphnia spec. - Water flea
	<b>Acute - LC50 - Fresh water</b> 6812 mg/l [96 hours]	Fish - Golden orfe (leuciscus idus)
1-methoxy-2-propanol	<b>Acute - EC50</b> 23300 mg/l [96 hours]	Daphnia spec. - Daphnia spec.
	<b>Acute - EC50</b> >1000 mg/l [7 days]	Algae

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.2 Persistence and degradability**

Product/ingredient name	Test	Result
n-butyl acetate	-	90% [28 days] - Readily
	-	83% [28 days] - Readily
	-	80% [5 days]
Ethylacetate	-	70% [28 days] - Readily
1-methoxy-2-propanol	<b>1,95 gO<sub>2</sub>/g - ThOD</b>	>90% [5 days] - Readily
	-	96% [28 days] - Readily
	-	88 to 92% [28 days] - Readily

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met. This product has not been tested for biodegradation.

**Ingredient name**

n-butyl acetate

**Conclusion/Summary**

This product is readily biodegradable.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate	-	-	Readily
Ethylacetate	-	-	Readily
1-methoxy-2-propanol	<28 days [Fresh water] [5 to 25 °C]	-	Readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
dimethyl ether	0,07	-	Low
n-butyl acetate	2,3	10	Low
Ethylacetate	0,68	30	Low
1-methoxy-2-propanol	<1	<100	Low

**12.4 Mobility in soil**

**Soil/water partition coefficient** : Not available.

**Mobility** : Volatile. This product is likely to volatilise rapidly into the air because of its high vapour pressure.

**12.5 Results of PBT and vPvB assessment**

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
dimethyl ether	No	N/A	N/A	No	N/A	N/A	N/A
n-butyl acetate	No	N/A	No	No	No	N/A	No
Ethylacetate	No	N/A	No	No	No	N/A	No
1-methoxy-2-propanol	No	No	No	No	No	No	No
hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics	No	N/A	N/A	No	N/A	N/A	N/A

## SECTION 12: Ecological information

**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.

### 13.1 Waste treatment methods

#### Product

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





**Hazardous waste** : Yes.

#### Waste catalogue

Waste code	Waste designation
20 01 27*	paint, inks, adhesives and resins containing hazardous substances

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number or ID number</b>	UN1950	UN1950	UN1950	UN1950
<b>14.2 UN proper shipping name</b>	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable
<b>14.3 Transport hazard class(es)</b>	2 	2 	2.1 	2.1 
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.

### Additional information ADR

**Limited quantity** : 1L  
**Transport Category** : 2  
**Classification code** : 5F  
**ADR Label Model Number** : 2.1  
**Excepted Quantity** : E0  
**Tunnel code** : (D)  
**Packing instructions** : P207, LP200  
**Mixed Packing Provisions** : MP9  
**Special Packing Provisions** : PP87, RR6, L2  
**Special provisions** : 190, 327, 344, 625

## SECTION 14: Transport information

### Additional information ADN

Limited quantity : 1L  
 Classification code : 5F  
 Special provisions : 190, 327, 344, 625

### Additional information IMDG

Limited quantity : 1L  
 Emergency schedules : F-D, S-U  
 Segregation code : SG69 - For AEROSOLS with a maximum capacity of 1 L: segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 L: segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: segregation as for the appropriate subdivision of class 2.  
 Special provisions : 63, 190, 277, 327, 344, 381, 959

### Additional information IATA

Passenger and Cargo Aircraft : Quantity limitation 75kg Packaging instruction 203  
 Cargo aircraft : Quantity limitation 150kg Packaging instruction 203  
 Limited Quantities - Passenger Aircraft : Quantity limitation 30kg Packaging instruction Y203  
 Special provisions : A145, A167, A802

**14.6 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.

**14.7 Maritime transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

#### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed above the relevant limit.

##### Substances of very high concern

None of the components are listed above the relevant limit.

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

Product/ingredient name	%	Designation [Usage]
3369-3380 CombiColor Anti-Rust Primer Aerosol	≥90	3

**Labelling** : Not applicable.

#### Synthetic polymer microparticles - Designation 78

**Generic identity of polymer(s)** : Not applicable.

**Total percentage of synthetic polymer microparticles** : Not applicable.

## SECTION 15: Regulatory information

### Other EU regulations

**VOC** : Exempt

**VOC for Ready-for-Use Mixture** : Exempt

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

### Ozone depleting substances

Not listed.

### Prior Informed Consent (PIC)

Not listed.

### Persistent Organic Pollutants

Not listed.

**Aerosol dispensers** :

**UK  
CA**



Extremely flammable

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

**Category**

P3a

### EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

## SECTION 15: Regulatory information

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

**CN code** : 3208 10 90 00

### Inventory list

<b>Australia</b>	: At least one component is not listed.
<b>Canada</b>	: At least one component is not listed.
<b>China</b>	: At least one component is not listed.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory</b> : Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : At least one component is not listed. <b>Japan inventory (ISHL)</b> : At least one component is not listed.
<b>New Zealand</b>	: At least one component is not listed.
<b>Philippines</b>	: At least one component is not listed.
<b>Republic of Korea</b>	: At least one component is not listed.
<b>Taiwan</b>	: At least one component is not listed.
<b>Thailand</b>	: At least one component is not listed.
<b>Turkey</b>	: At least one component is not listed.
<b>United States</b>	: At least one component is not listed.
<b>Viet Nam</b>	: Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

📌 Indicates information that has changed from previously issued version.

<b>Abbreviations and acronyms</b>	: ATE = Acute Toxicity Estimate 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
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### Procedure used to derive the classification

Classification	Justification
Aerosol 1, H222, H229 STOT SE 3, H336	On basis of test data Calculation method

### Full text of abbreviated H statements

H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Full text of classifications

3369-3380 CombiColor Anti-Rust Primer Aerosol

**SECTION 16: Other information**

Aerosol 1	AEROSOLS - Category 1
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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**Notice to reader**

**IMPORTANT NOTE:** The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.