



## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083849

### VULSOL 3500 S

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

#### 1. IDENTIFICATION

##### Product identifier

Product name VULSOL 3500 S

##### Other means of identification

Product Code(s) 083849

Number 8D2

Substance/mixture Mixture

##### Recommended use of the chemical and restrictions on use

Identified uses Metalworking fluid.

Uses advised against Do not use for any purpose other than the one for which it is intended

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

Supplier Address TOTAL Specialties USA Inc  
1201 Louisiana Street, Suite 1800  
Houston, TX 77002  
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

##### Emergency telephone number

Company Phone Number

+1 (908) 862-9300

Emergency telephone

CHEMTREC: +1 800 424 9300 (24h)

#### 2. HAZARDS IDENTIFICATION

##### Classification

Skin corrosion/irritation - Category 1 - Subcategory B

Serious eye damage/eye irritation - Category 1

Skin sensitization - Category 1

##### Label elements



SDS # : 083849

**VULSOL 3500 S**

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

**DANGER**

Causes severe skin burns and eye damage  
May cause an allergic skin reaction

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
Specific treatment (see Section 4 on this label)

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician

**Skin**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
If skin irritation or rash occurs: Get medical advice/attention

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician

**Ingestion**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/ container to an approved waste disposal plant

**Unknown Acute Toxicity**

No information available

**Hazards not otherwise classified (HNOC)**

• None known

**Other information****Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.

**Environmental properties**

Should not be released into the environment.



SDS # : 083849

**VULSOL 3500 S**

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Octanoic acid	124-07-2	1-5
Nitric acid, reaction products with cyclododecanol and cyclododecanone, by-products from, high-boiling fraction	72162-23-3	1-5
2-amino-2-methylpropanol	124-68-5	1-5
Oxirane, methyl-, polymer with oxirane, monobutyl ether, phosphate	71662-44-7	1-5
Ethanolamine	141-43-5	1-5
2-n-butyl-benzo[d]isothiazol-3-one	4299-07-4	0-1

**4. FIRST AID MEASURES****First aid measures for different exposure routes**

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. Show this material safety data sheet to the doctor in attendance. Immediate medical attention is required.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Immediate medical attention is required. Do not rub affected area.
<b>Skin contact</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Move to fresh air. Immediate medical attention is required. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.
<b>Ingestion</b>	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water. If swallowed, do not induce vomiting - seek medical advice.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Most important symptoms/effects, acute and delayed**

<b>Skin contact</b>	Contact causes severe skin irritation and possible burns. Avoid contact with skin and clothing. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye damage. Avoid contact with eyes.



SDS # : 083849

## VULSOL 3500 S

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Redness. Itching. Burning.

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

**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b><u>Suitable Extinguishing Media</u></b>	Foam. Carbon dioxide (CO <sub>2</sub> ). ABC powder.
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Special Hazard</u></b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
<b><u>Explosion Data</u></b>	
<b><u>Sensitivity to Mechanical Impact</u></b>	None.
<b><u>Sensitivity to Static Discharge</u></b>	None.
<b><u>Protective Equipment and Precautions for Firefighters</u></b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>General Information</b>	Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

<b>General Information</b>	Do not allow material to contaminate ground water system. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information.
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### Methods and materials for containment and cleaning up



SDS # : 083849

## VULSOL 3500 S

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

### Methods for cleaning up

Dam up. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Advice on safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist.

#### Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

### Conditions for safe storage, including any incompatibilities

#### Technical measures/Storage conditions

Keep out of reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

#### Materials to Avoid

Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure limits

Ingredients with workplace control parameters.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanolamine 141-43-5	STEL 6 ppm TWA 3 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup> (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m <sup>3</sup> (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>



SDS # : 083849

## VULSOL 3500 S

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

### Exposure controls

#### Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

### Individual protection measures, such as personal protective equipment

#### General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

#### Eye/Face Protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

#### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots.

#### Hand Protection

Impervious butyl rubber gloves. Nitrile rubber. Fluorinated rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

#### Respiratory protection

None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

#### Appearance

limpid  
To  
slightly cloudy  
amber  
liquid  
Mild  
No information available

#### Color

#### Physical State @20°C

#### Odor

#### Odor Threshold

#### Property

pH

pH (as aqueous solution)

#### Values

8.6

#### Remarks

Not applicable  
solution (5 %)

#### Method



SDS # : 083849

**VULSOL 3500 S**

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

<b>Melting point/range</b>		No information available
<b>Boiling point/boiling range</b>		Not applicable
<b>Flash point</b>		Not applicable
<b>Evaporation rate</b>	> 1.0	@ 25 °C
<b>Flammability Limits in Air</b>		No information available
<b>upper</b>	-	No information available
<b>Lower</b>	-	No information available
<b>Vapor Pressure</b>		No information available
<b>Vapor density</b>		No information available
<b>Relative density</b>	1.008	@ 15 °C
<b>Density</b>	1006 kg/m <sup>3</sup>	@ 15 °C
<b>Water solubility</b>		soluble
<b>Solubility in other solvents</b>		No information available
<b>logPow</b>		No information available
<b>Autoignition temperature</b>		No information available
<b>Decomposition temperature</b>		No information available
<b>Viscosity, kinematic</b>		No information available
<b>Explosive properties</b>	Not explosive	
<b>Oxidizing Properties</b>	Not applicable	
<b>Possibility of hazardous reactions</b>	Not applicable	
<b>Other information</b>		
<b>Freezing Point</b>		No information available

**10. STABILITY AND REACTIVITY**

<b><u>Reactivity</u></b>	No information available.
<b><u>Chemical stability</u></b>	Stable under recommended storage conditions.
<b><u>Possibility of hazardous reactions</u></b>	None under normal processing.
<b><u>Conditions to Avoid</u></b>	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.
<b><u>Incompatible Materials</u></b>	Acids.
<b><u>Hazardous Decomposition Products</u></b>	None under normal use.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

**Information on likely routes of exposure**

**Principle Routes of Exposure** Inhalation, Ingestion, Eye contact, Skin contact.



SDS # : 083849

**VULSOL 3500 S**

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

**Numerical measures of toxicity - Product Information**

<b>ATEmix (oral)</b>	22657 mg/kg
<b>ATEmix (dermal)</b>	14132 mg/kg
<b>Inhalation</b>	
<b>ATEmix (inhalation-dust/mist)</b>	31.2 mg/l
<b>ATEmix (inhalation-vapor)</b>	265.9 mg/l

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Octanoic acid 124-07-2	LD50 >2000 mg/kg (Rat-OECD 401)	LD50 > 2000 mg/kg (Rabbit - OECD 434)	LC50 (4h) > 0.1621 mg/l (rat - vapour)
Nitric acid, reaction products with cyclododecanol and cyclododecanone, by-products from, high-boiling fraction 72162-23-3	LD50 > = 5000 mg/kg (Rat)	LD50 >= 2000 mg/kg (Rabbit)	LC50 (4h) >= 4.3 mg/l (Rat)
2-amino-2-methylpropanol 124-68-5	= 2900 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	
Oxirane, methyl-, polymer with oxirane, monobutyl ether, phosphate 71662-44-7	LD50 > 5000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	
Ethanolamine 141-43-5	LD50 1510 mg/kg ( Rat )	LD50 1000 mg/kg ( Rabbit )	
2-n-butyl-benzo[d]isothiazol-3-one 4299-07-4	LD50 > 2000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	

**Information on toxicological effects**

<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Redness. Itching. Burning.
<b>Skin contact</b>	Contact causes severe skin irritation and possible burns. Avoid contact with skin and clothing. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye damage. Avoid contact with eyes.
<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

<b>Skin corrosion/irritation</b>	Causes burns.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes.
<b>Sensitization</b>	May cause an allergic skin reaction. Contains sensitizer(s).
<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product.





SDS # : 083849

**VULSOL 3500 S**

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

**Mutagenicity**

This product is not classified as mutagenic.

**Reproductive toxicity**

This product does not present any known or suspected reproductive hazards.

**Other adverse effects**

Frequent or prolonged skin contact destroys the lipoacid cutaneous layer and may cause dermatitis.

**Aspiration Hazard**

Not classified.

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Acute aquatic toxicity - Product Information**

No experimental data available

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Octanoic acid 124-07-2	EC50 (72h) 31 mg/l (Pseudokirchnerella subcapitata - static - OECD 201)	LC50 (96h) = 310 mg/L Oryzias latipes (semi-static) LC50 (96h) = 110 mg/L Brachydanio rerio (semi-static)	EC50 (24h) = 170 mg/L Daphnia magna EC50 (48h) 128 mg/l (Hyale plumulosa)	
Nitric acid, reaction products with cyclododecanol and cyclododecanone, by-products from, high-boiling fraction 72162-23-3			EC50 (48h) >= 120 mg/l (Daphnia magna)	
2-amino-2-methylpropanol 124-68-5	EC50 (72h) = 520 mg/L Desmodesmus subspicatus	LC50 (96h) = 190 mg/L Lepomis macrochirus (static)	EC50 (48h) = 193 mg/L Daphnia magna	
Ethanolamine 141-43-5	EC50 (72h) = 15 mg/L Desmodesmus subspicatus	LC50 (96h) 150 mg/l Oncorhynchus mykiss	EC50 (48h) = 65 mg/L Daphnia magna	EC50 = 13.7 mg/L 30 min EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h
2-n-butyl-benzo[d]isothiazol- 3-one 4299-07-4	EC50 < 1 mg/l	LC50 < 1 mg/l	EC50 < 1 mg/l	

**Chronic aquatic toxicity - Product Information**

No experimental data available

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
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SDS # : 083849

**VULSOL 3500 S**

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

Octanoic acid 124-07-2		NOEC (21d) 0.2 mg/l (Daphnia magna - OECD 211) LOEC (21d) 0.64 mg/l (Daphnia magna - OECD 211) EC50 (21d) 0.51 mg/l (Daphnia magna - OECD 211) LC50 (21d) 20 mg/l (Daphnia magna - OECD 211)	NOEC (28d) 6.4 mg/l (Danio rerio - OECD 305 E) LC50 (28d) 9.8 mg/l (Danio rerio - OECD 305 E) NOEC (28d) 2 mg/l (Danio rerio - OECD 305 E)	
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**Effects on terrestrial organisms** No experimental data available .**Persistence and degradability****General Information** No information available.**Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
Octanoic acid 124-07-2	3.05
Ethanolamine 141-43-5	-1.91
2-n-butyl-benzo[d]isothiazol-3-one 4299-07-4	2.9

**Mobility****Soil** No information available**Other adverse effects****General Information** No information available**13. DISPOSAL CONSIDERATIONS****Waste treatment****Waste Disposal Methods** Dispose of in accordance with local regulations.**Contaminated packaging** Dispose of in accordance with local regulations.



SDS # : 083849

**VULSOL 3500 S**

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

**14. TRANSPORT INFORMATION**

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>ADR/RID</u>	Not regulated
<u>ADN</u>	Not regulated

**15. REGULATORY INFORMATION**

International Inventories All the substances contained in this product are listed or exempted from listing in the following inventories:  
U.S.A. (TSCA)

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following HAPs:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors



SDS # : 083849

**VULSOL 3500 S**

Date of the previous version: not applicable

Revision Date: 2015-08-28

Version 1

Ethanolamine	141-43-5	1-5		Group I		
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**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Triethanolamine 102-71-6	X	X	X	
2-amino-2-methylpropanol 124-68-5	X	X	X	
Ethanolamine 141-43-5	X	X	X	X

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 3	Flammability 0	Instability 0	Physical and chemical hazards -
<b>HMIS</b>	Health Hazard 3	Flammability 0	Physical Hazard 0	Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2015-08-28

Revision Note: \*\*\* Indicates updated section

Abbreviations, acronyms



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**SDS # :** 083849

## VULSOL 3500 S

**Date of the previous version:** not applicable**Revision Date:** 2015-08-28**Version** 1

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**Legend**

## Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

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**This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.**

**End of the safety data sheet**