According to SS 586:Part 3:2008 (2014)



# UNITED HYDRO 800 SAE 15W40 API CJ4/SN

#### **SECTION 1: IDENTIFICATION**

**1.1 GHS Product identifier:** UNITED HYDRO 800 SAE 15W40 API CJ4/SN

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Lubricant

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Manufacturer's or supplier's details:

UNITED OIL COMPANY PTE LTD 14 Tuas Drive 2, Singapore 638647 638647 Singapore - Singapore - Singapore Phone.: +65 6861 1157 - Fax: +65 6861 3101 enquiry@united-oil.com

http://www.united-oil.com/default.aspx?uc=14 **1.4 Emergency phone number:** +65 68611157

#### **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture:

SS 586:Part 2:2014:

The product is not classified as dangerous according to SS 586: Part 2: 2014

2.2 GHS label elements, including precautionary statements:

SS 586:Part 2:2014:

None

2.3 Other hazards which do not result in classification:

Non-applicable

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Mixture based on hydrocarbons and additives

Components:

In accordance with SS 586:Part 3:2008 (2014), the product contains:

	Identification	Chemical name/Classification	Concentration
CAS:	64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, > 20,5 cSt @ 40°C	75 - <100 %
CAS:	113706-15-3	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts  Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	1 - <2.5 %
CAS:	Non-applicable	Long chain alkyl thio carbamide metal complex Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	<1 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

# **SECTION 4: FIRST-AID MEASURES**

#### 4.1 Description of necessary first-aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

# By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

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### SECTION 4: FIRST-AID MEASURES (continued)

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

#### By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

# 4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

### **SECTION 5: FIRE-FIGHTING MEASURES**

### 5.1 Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

### 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

# 5.3 Special protective actions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

#### **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### 6.2 Environmental precautions:

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

#### 6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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# SECTION 7: HANDLING AND STORAGE (continued)

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters/Occupational exposure limits:

Substances whose occupational exposure limits have to be monitored in the workplace according to Workplace Safety and Health (General Provisions) Regulations

Identification		Occupational exposure limits			
cyclohexane		PEL (Long Term)	300 ppm	1030 mg/m <sup>3</sup>	
CAS: 110-82-7	•		PEL (Short Term)		

#### 8.2 Appropriate engineering control measures:

A.- Individual protection measures, such as personal protective equipment (PPE)

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using chemical protection gloves

<sup>&</sup>quot;As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

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Pictogran	m	PPE		Remarks
Panoramic glasses against spla  Mandatory face protection		nic glasses against splash/projections.		according to the manufacturer's instructis a risk of splashing.
E Bodily prote			T	
Pictograr Pictograr	m	PPE		Remarks
		Work clothing	Replace before any	evidence of deterioration.
		Anti-slip work shoes	Replace before any	y evidence of deterioration.
F Additional e				
Emergen	ncy measure	Standards	Emergency measure	Standards
			<b>**</b>	
Emerger Environmenta		ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:20	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:201
Environmenta In accordance v spillage of both ION 9: PHYSIO	with the commented the product a	ISO 3864-1:2011, ISO 3864-4:20 controls: nunity legislation for the protection its container. For additional interpretation is selected to the protection of the protection in the protection of the protection is selected to the protection of the p	Eyewash stations  on of the environment it is reconformation see subsection 7.1.E	ISO 3864-1:2011, ISO 3864-4:201
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Environmenta In accordance v spillage of both  ION 9: PHYSIO Information o For complete in Appearance: Physical state at Appearance:	with the commented product a CAL AND Chon basic physicommunication see	ISO 3864-1:2011, ISO 3864-4:20  controls: nunity legislation for the protection of its container. For additional in the protection of its container. For additional in the product datasheet.  Liquing Not Not Not in the properties of the product datasheet.	Eyewash stations  on of the environment it is reconformation see subsection 7.1.E  s:  id available	ISO 3864-1:2011, ISO 3864-4:20
Environmenta In accordance v spillage of both  ION 9: PHYSIO Information o For complete in Appearance: Physical state at Appearance: Color:	with the comment the product a CAL AND Chan basic physic formation see the 20 °C:	ISO 3864-1:2011, ISO 3864-4:20  controls: nunity legislation for the protection its container. For additional is  IEMICAL PROPERTIES  sical and chemical properties the product datasheet.  Liquing Not Not Not Not	Eyewash stations  on of the environment it is reconformation see subsection 7.1.E  s:  id available available	ISO 3864-1:2011, ISO 3864-4:20
Environmenta In accordance v spillage of both  ION 9: PHYSIO Information o For complete in Appearance: Physical state at Appearance: Color: Odor:	with the comment the product a CAL AND Chan basic physic formation see the 20 °C:	ISO 3864-1:2011, ISO 3864-4:20  controls: nunity legislation for the protection its container. For additional is  IEMICAL PROPERTIES  sical and chemical properties the product datasheet.  Liquing Not Not Not Not	eyewash stations  on of the environment it is reconformation see subsection 7.1.E  s:  id available available available	ISO 3864-1:2011, ISO 3864-4:20:
Environmenta In accordance v spillage of both  ION 9: PHYSIO Information o For complete in Appearance: Physical state at Appearance: Color: Odor: Odour threshold	with the comment the product a comment the product a comment the product a comment the product a comment to the product a	iso 3864-1:2011, ISO 3864-4:20 controls: nunity legislation for the protection its container. For additional in HEMICAL PROPERTIES sical and chemical properties the product datasheet.  Liqu Not Not Not Not	eyewash stations  on of the environment it is reconformation see subsection 7.1.E  s:  id available available available	ISO 3864-1:2011, ISO 3864-4:201

Density at 20 °C: 884 kg/m³ Relative density at 20 °C: 0.884

Vapour pressure at 50 °C:

Evaporation rate at 20 °C:

**Product description:** 

Dynamic viscosity at 20 °C:

Kinematic viscosity at 20 °C:

Kinematic viscosity at 40 °C:

Kinematic viscosity at 40 °C:

Kinematic viscosity at 100 °C:

Concentration:

Non-applicable \*

Non-applicable \*

 ${}^*\mbox{Not}$  relevant due to the nature of the product, not providing information property of its hazards.

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Non-applicable \*

Non-applicable \*

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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

pH: Non-applicable \* Vapour density at 20 °C: Non-applicable \* Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: Non-applicable \* Decomposition temperature: Non-applicable \* Melting point/freezing point: Non-applicable \* Non-applicable \* Explosive properties: Oxidising properties: Non-applicable \*

Flammability:

Flash Point: >200 °C

Flammability (solid, gas):

Autoignition temperature:

Lower flammability limit:

Upper flammability limit:

Non-applicable \*

Non-applicable \*

**Explosive:** 

Lower explosive limit:

Upper explosive limit:

Non-applicable \*
Non-applicable \*

9.2 Other information:

Surface tension at 20 °C:

Refraction index:

Non-applicable \*

Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

# **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

# 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

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#### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

#### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

#### B- Inhalation (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

    IARC: Non-applicable
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

# E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

### Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, > 20,5 cSt @ $40^{\circ}$ C	LD50 oral	>5000 mg/kg	
CAS: 64742-54-7	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L (4 h)	
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	LD50 oral	>5000 mg/kg	
CAS: 113706-15-3	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	Non-applicable	

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# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Long chain alkyl thio carbamide metal complex	LD50 oral	>5000 mg/kg	
CAS: Non-applicable	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	Non-applicable	

#### **Acute Toxicity Estimate (ATE mix):**

	Ingredient(s) of unknown toxicity		
>5000 mg/kg (Calculation method)		Non-applicable	
Dermal	>5000 mg/kg (Calculation method)	Non-applicable	
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable	

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

#### 12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 113706-15-3	EC50	1 - 10 mg/L		Crustacean
	EC50	1 - 10 mg/L		Algae

# 12.2 Persistence and degradability:

Not available

#### 12.3 Bioaccumulative potential:

Not available

# 12.4 Mobility in soil:

Not available

# 12.5 Results of PBT and vPvB assessment:

Non-applicable

#### 12.6 Other adverse effects:

Not described

# **SECTION 13: DISPOSAL CONSIDERATIONS**

# 13.1 Disposal methods:

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

### Regulations related to waste management:

Legislation related to waste management:

Environmental Public Health (Toxic Industrial Waste) Regulations. Hazardous Waste (Control of Export, Import and Transit) Act.

# **SECTION 14: TRANSPORT INFORMATION**

### Transport of dangerous goods by land:

With regard to SS 586-1 (2014):

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### SECTION 14: TRANSPORT INFORMATION (continued)

14.1 UN number: Non-applicable 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable Non-applicable 14.4 Packing group, if applicable: Non-applicable

14.5 Environmental hazard:

73/78 and the IBC Code:

14.6 Special precautions for user

Physico-Chemical properties: see section 9 14.7 Transport in bulk according Non-applicable to Annex II of MARPOL

Transport of dangerous goods by sea:

With regard to IMDG 39-18:

14.1 UN number: Non-applicable 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable Non-applicable 14.4 Packing group, if applicable: Non-applicable Nο

14.5 Marine pollutant:

14.6 Special precautions for user

Physico-Chemical properties: see section 9 14.7 Transport in bulk according Non-applicable to Annex II of MARPOL 73/78 and the IBC Code:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2020:

14.1 UN number: Non-applicable 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable Non-applicable Labels: Non-applicable 14.4 Packing group, if applicable: 14.5 Environmental hazard: No

14.6 Special precautions for user

Physico-Chemical properties: see section 9 14.7 Transport in bulk according Non-applicable

> to Annex II of MARPOL 73/78 and the IBC Code:

# **SECTION 15: REGULATORY INFORMATION**

#### 15.1 Safety, health and environmental regulations specific for the product in question:

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### Other legislation:

Environmental Protection and Management (Hazardous Substances) Regulations.

Environmental Protection and Management Act.

Environmental Public Health Act.

Fire Safety Act.

Workplace Safety and Health Act.

Workplace Safety and Health (General Provisions) Regulations.

# **SECTION 16: OTHER INFORMATION**

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### SECTION 16: OTHER INFORMATION (continued)

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with SS 586Part 3:2008 (2014) - Specification for hazard communication for hazardous chemicals and dangerous goods - Part 3: Preparation of safety data sheets (SDS).

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### SS 586:Part 2:2014:

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects

Eye Dam. 1: H318 - Causes serious eye damage

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction

#### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### **Principal bibliographical sources:**

http://www.nea.gov.sg

# **Abbreviations and acronyms:**

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET

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