

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OKS 661

Chemical nature : Active substance with propellant
Ethanol
Perfumes
water

Manufacturer or supplier's details

Company name of supplier : OKS Spezialschmierstoffe GmbH
Ganghoferstr. 47
D-82216 Maisach-Gernlinden
Tel.: +49 8142 3051 500
Fax.: +49 8142 3051 599
info@oks-germany.com

E-mail address of person responsible for the SDS : mcm@oks-germany.com
Material Compliance Management

National contact :

Emergency telephone number : +86 532 8388 9090 (NRCC, only for hazardous chemicals)
+86 21 69225521

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant spray

Restrictions on use : Restricted to professional users.

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: aerosol
Colour	: yellow
Odour	: characteristic

Extremely flammable aerosol. Pressurised container: May burst if heated.

GHS Classification

Aerosols : Category 1

GHS label elements


SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

- Hazard pictograms : 
- Signal word : Danger
- Hazard statements : H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
- Precautionary statements : **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
Storage:
P410 + P412 Protect from sunlight. Do not expose to
temperatures exceeding 50 °C/ 122 °F.

Physical and chemical hazards

Extremely flammable aerosol.Pressurised container: May burst if heated.

Health hazards

Not classified based on available information.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Ethyl Alcohol	64-17-5	>= 30 -< 50
Isobutane	75-28-5	>= 20 -< 30
propane	74-98-6	>= 1 -< 10
1-Methoxy-2-propanol	107-98-2	>= 1 -< 10
pentane-2,4-dione	123-54-6	>= 1 -< 10
methyl salicylate	119-36-8	>= 1 -< 10
cinnamaldehyde	104-55-2	>= 0.1 -< 1

4. FIRST AID MEASURES

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

- If inhaled : Obtain medical attention.
Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with soap and plenty of water.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : Move the victim to fresh air.
Keep respiratory tract clear.
Do NOT induce vomiting.
Obtain medical attention.
Rinse mouth with water.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
May cause an allergic skin reaction.
Inhalation may provoke the following symptoms:
Unconsciousness
Dizziness
Drowsiness
Headache
Nausea
Tiredness
Allergic appearance
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : ABC powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Fire Hazard
Do not let product enter drains.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

Contains gas under pressure; may explode if heated.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Cool containers/tanks with water spray.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
Exposure to decomposition products may be a hazard to health.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not breathe vapours or spray mist.
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
Prevent further leakage or spillage if safe to do so.
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : 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).
Keep in suitable, closed containers for disposal.
Non-sparking tools should be used.
- Prevention of secondary hazards : Only qualified personnel equipped with suitable protective equipment may intervene.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : Do not use in areas without adequate ventilation.
Do not breathe vapours or spray mist.
In case of insufficient ventilation, wear suitable respiratory equipment.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

Avoid contact with skin and eyes.
For personal protection see section 8.
Keep away from fire, sparks and heated surfaces.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Wash hands and face before breaks and immediately after handling the product.
Do not get in eyes or mouth or on skin.
Do not get on skin or clothing.
Do not ingest.
Do not use sparking tools.
These safety instructions also apply to empty packaging which may still contain product residues.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Avoidance of contact : Oxidizing agents

Storage

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
Store in accordance with the particular national regulations.

Protect from frost.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl Alcohol	64-17-5	STEL	1,000 ppm	ACGIH (2013-03-01)
Isobutane	75-28-5	STEL	1,000 ppm	ACGIH (2018-03-20)
1-Methoxy-2-propanol	107-98-2	TWA	50 ppm	ACGIH (2014-03-01)
		STEL	100 ppm	ACGIH (2014-03-01)
pentane-2,4-dione	123-54-6	TWA	25 ppm	ACGIH

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

(2013-03-01)

Engineering measures : Use only in an area equipped with explosion proof exhaust ventilation.
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Type A

Eye/face protection : Safety glasses with side-shields

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hand protection

Material : Nitrile rubber

Break through time : > 10 min

Protective index : Class 1

Remarks : For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : aerosol

Colour : yellow

Odour : characteristic

Odour Threshold : No data available

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

pH	:	6 (20 °C) Concentration: 100 %
Melting point/range	:	No data available
Boiling point/boiling range	:	-42 °C (1,013 hPa)
Flash point	:	-104 °C Method: Abel-Pensky
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	not auto-flammable
Upper explosion limit / Upper flammability limit	:	15 %(V)
Lower explosion limit / Lower flammability limit	:	1.4 %(V)
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	0.75 (20 °C) Reference substance: Water The value is calculated
Density	:	0.75 g/cm ³ (20 °C)
Bulk density	:	No data available
Solubility(ies)	:	
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

Viscosity, kinematic : < 21.5 mm²/s (40 °C)
Not applicable

Explosive properties : Not explosive

Oxidizing properties : No data available

Sublimation point : No data available

Metal corrosion rate : Not corrosive to metals

10. STABILITY AND REACTIVITY

Reactivity : No hazards to be specially mentioned.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : Heat, flames and sparks.
Strong sunlight for prolonged periods.
Risk of receptacle bursting.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Symptoms: Inhalation may provoke the following symptoms:;
Respiratory disorder

Acute dermal toxicity : Symptoms: Redness, Local irritation

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

Components:

Ethyl Alcohol:

Acute oral toxicity : LD50 (Rat): 10,470 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Isobutane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l
Exposure time: 4 h
Test atmosphere: gas

1-Methoxy-2-propanol:

Acute oral toxicity : LD50 Oral (Rat): 7,120 mg/kg

pentane-2,4-dione:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

methyl salicylate:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

cinnamaldehyde:

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

Skin corrosion/irritation

Product:

Remarks : Irritating to skin.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

Components:

Ethyl Alcohol:

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation

cinnamaldehyde:

Result : Skin irritation

Serious eye damage/eye irritation

Product:

Remarks : Irritating to eyes.

Components:

Ethyl Alcohol:

Species : Rabbit
Result : Irritating to eyes.
Assessment : Irritating to eyes.
Method : OECD Test Guideline 405

cinnamaldehyde:

Result : Eye irritation

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

Ethyl Alcohol:

Species : Mouse
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

cinnamaldehyde:

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

Ethyl Alcohol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Result: negative

Carcinogenicity

Product:

Remarks : No data available

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

STOT - single exposure

Components:

Ethyl Alcohol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

1-Methoxy-2-propanol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Components:

Ethyl Alcohol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

Ethyl Alcohol:

Species : Rat, female
NOAEL : 1,730 mg/kg
Application Route : Oral
Exposure time : 90 d
Method : OECD Test Guideline 408

Aspiration toxicity

Product:

This information is not available.

Components:

Ethyl Alcohol:

No aspiration toxicity classification

Further information

Product:

Remarks : Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.
Possible risk of irreversible effects.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

Components:

Ethyl Alcohol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 3,220 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 6,300 mg/l
Exposure time: 48 d

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

Physico-chemical
removability : Remarks: No data available

Components:

Ethyl Alcohol:

Biodegradability : aerobic
Result: Readily biodegradable.
Testing period: 28 d
Kinetic:
28 d: 97 %
Method: OECD Test Guideline 301B

1-Methoxy-2-propanol:

Biodegradability : Result: rapidly biodegradable

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Components:

Ethyl Alcohol:

Bioaccumulation : Bioconcentration factor (BCF): 3.2
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-
octanol/water : log Pow: -0.35 (20 °C)
Method: OECD Test Guideline 117

Isobutane:

Partition coefficient: n-
octanol/water : log Pow: 2.88
Method: OECD Test Guideline 107

propane:

Partition coefficient: n-
octanol/water : log Pow: 2.36

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

1-Methoxy-2-propanol:

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-octanol/water : log Pow: 0.37

Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

Other adverse effects

Product:

Additional ecological information : Harmful to aquatic life with long lasting effects.

Components:

Ethyl Alcohol:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of with domestic refuse.
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.
Offer empty spray cans to an established disposal company.
Pressurized container: Do not pierce or burn, even after use.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1

IATA-DGR

UN/ID No. : UN 1950
Proper shipping name : Aerosols, flammable
Class : 2.1
Packing group : Not assigned by regulation
Labels : Flammable Gas
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203

IMDG-Code

UN number : UN 1950
Proper shipping name : AEROSOLS

Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals

Product name		Status	Reference number
OKS 661		Listed	2828

List of ingredients	CAS-No.	Status	Reference number
Ethyl Alcohol	64-17-5	Listed	107
Isobutane	75-28-5	Listed	2707
propane	74-98-6	Listed	139
pentane-2,4-dione	123-54-6	Listed	2170
Butane	106-97-8	Listed	2778

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)

Category Threshold quantity
Aerosols 150 t

Hazardous Chemicals for Priority Management under SAWS : Not applicable

Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals : Not applicable

Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import and Export : Not applicable

International Regulations

Montreal Protocol : Not applicable

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version 1.5 Revision Date: 2022-11-25 Date of last issue: 2021-02-09
Date of first issue: 2019-09-26 Print Date: 2022-11-25

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

The components of this product are reported in the following inventories:

IECSC : On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519
CN



OKS 661

Version	Revision Date:	Date of last issue: 2021-02-09
1.5	2022-11-25	Date of first issue: 2019-09-26 Print Date: 2022-11-25

vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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