

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 - GB



OKS 511

Version	Revision Date:	Date of last issue: 13.06.2019	Print Date:
2.3	19.09.2022	Date of first issue: 30.03.2013	19.09.2022

SEZIONE 1: Identificazione della sostanza/miscela e dell'azienda/impresa

1.1 Identificatore del prodotto

Nome del prodotto : OKS 511

1.2 Usi rilevanti identificati della sostanza o della miscela e usi sconsigliati

Uso della Sostanza/Miscela : Lubrificante

Restrizioni raccomandate sull'uso : Riservato agli utenti professionali.

1.3 Dettagli del fornitore della scheda di sicurezza

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

Indirizzo e-mail della persona responsabile per la SDS : mcm@oks-germany.com Gestione della conformità dei materiali

Contatto nazionale :

1.4 Numero di telefono di emergenza

Numero di telefono di emergenza : +49 8142 3051 517 (servizio 24/7)

SEZIONE 2: Identificazione dei pericoli

2.1 Classificazione della sostanza o della miscela

Classificazione (REGOLAMENTO (CE) n. 1272/2008) come modificato dal Regolamento GB-CLP, UK SI 2019/720 e UK SI 2020/1567)

Aerosol, Categoria 1	H222: Aerosol estremamente infiammabile. H229: Contenitore pressurizzato: può scoppiare se riscaldato.
Irritazione cutanea, Categoria 2	H315: Provoca irritazione cutanea.
Danno oculare grave, Categoria 1	H318: Provoca gravi lesioni agli occhi.
Tossicità specifica per un'esposizione singola, Categoria 3, Sistema nervoso centrale	H336: Può causare sonnolenza o vertigini.

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Pericolo di aspirazione, Categoria 1

H304: Può essere mortale se ingerito e entra nelle vie respiratorie.

Pericolo a lungo termine (cronico) per l'ambiente acquatico, Categoria 3

H412: Nocivo per la vita acquatica con effetti a lungo termine.

2.2 Elementi dell'etichetta

Etichettatura (REGOLAMENTO (CE) n. 1272/2008) come modificato dal Regolamento GB-CLP, UK SI 2019/720, e UK SI 2020/1567)

Pittogrammi di pericolo :



Parola di segnalazione : Pericolo

Indicazioni di pericolo :

H222	Aerosol estremamente infiammabile.
H229	Contenitore pressurizzato: Può scoppiare se riscaldato.
H304	Può essere fatale se ingerito e entra nelle vie aeree.
H315	Provoca irritazione cutanea.
H318	Provoca gravi lesioni agli occhi.
H336	Può causare sonnolenza o vertigini.
H412	Nocivo per la vita acquatica con effetti a lungo termine.

Dichiarazioni di precauzione :

Prevenzione:

P210	Tenere lontano da fonti di calore, superfici calde, scintille, fiamme libere e altre fonti di accensione. Divieto di fumare.
P211	Non spruzzare su fiamme libere o altre fonti di accensione.
P251	Non perforare o bruciare, nemmeno dopo l'uso.
P280	Indossare guanti protettivi/ protezione degli occhi/ protezione del viso.

Risposta:

P301 + P310	SE INGERITO: Chiamare immediatamente un CENTRO ANTIVELENO/ medico.
P305 + P351 + P338 + P310	SE A CONTATTO CON GLI OCCHI: Sciacquare cautamente con acqua per diversi minuti. Togliere le lenti a contatto, se presenti e facili da rimuovere. Continuare a sciacquare. Chiamare immediatamente un CENTRO ANTIVELENO/ medico.
P331	NON provocare il vomito.

Conservazione:

P410 + P412	Proteggere dalla luce solare. Non esporre a temperature superiori a 50 °C/ 122 °F.
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Componenti pericolosi che devono essere elencati sull'etichetta:

Nafta (petrolio), leggera idrogenata; Nafta idrogenata a basso punto di ebollizione

acetato di n-butilo

Nafta (petrolio), leggera idrogenata; Nafta idrogenata a basso punto di ebollizione

butan-1-ol

Etichettatura aggiuntiva

2.3 Altri pericoli

Questa sostanza/miscela non contiene componenti considerati persistenti, bioaccumulativi e tossici (PBT), o molto persistenti e molto bioaccumulativi (vPvB) a livelli dello 0.1% o superiori.

SEZIONE 3: Composizione/informazioni sugli ingredienti

3.2 Misure

Natura chimica : Sostanza attiva con propellente
Solvente
Resina di silicone
grafite
Disolfuro di molibdeno

Componenti

Nome chimico	CAS-No. EC-No. Indice-No. Numero di registrazione	Classificazione	limite di concentrazione specifico M-Factor Note Stima della tossicità acuta	Concentrazione (% p/p)
Nafta (petrolio), leggera idrotrattata; Nafta idrogenata a basso punto di ebollizione	64742-49-0 265-151-9 649-328-00-1	Liquido infiammabile 2; H225 Irritante per la pelle 2; H315 SE3 STOT; H336 Tossico per aspirazione 1; H304 Cronico acquatico 2; H411		>= 10 - < 20
propano	74-98-6 200-827-9 601-003-00-5	Gas infiammabile 1; H220 Gas compresso sotto pressione Gas; H280		>= 10 - < 20

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isobutano	75-28-5 200-857-2 601-004-00-0	Gas infiammabile 1A; H220 Gas compresso sotto pressione Gas; H280		>= 10 - < 20
acetato di n-butilo	123-86-4 204-658-1 607-025-00-1	Liquido infiammabile 3; H226 SE STOT 3; H336; EUH066		>= 1 - < 10
Nafta (petrolio), leggera idrotrattata; Nafta idrogenata a basso punto di ebollizione	64742-49-0 927-241-2 649-328-00-1	Liquido infiammabile 3; H226 SE STOT 3; H336 Tossico per aspirazione 1; H304 Cronico acquatico 3; H412		>= 2.5 - < 10
xilene	1330-20-7 215-535-7 601-022-00-9	Liquido infiammabile 3; H226 Tossicità acuta 4; H332 Tossicità acuta 4; H312 Irritante per la pelle 2; H315 Irritante per gli occhi 2; H319 SE STOT 3; H335 STOT RE2; H373 STOT RE2; H373 Asp. Tox.1; H304		>= 1 - < 10
etilbenzene	100-41-4 202-849-4 601-023-00-4	Flam. Liq.2; H225 Acute Tox.4; H332 STOT RE2; H373 Asp. Tox.1; H304 Acquatic Chronic3; H412		>= 1 - < 2.5
butan-1-ol	71-36-3 200-751-6 603-004-00-6	Flam. Liq.3; H226 Acute Tox.4; H302 Irrit. Cut.2; H315 Danno occhi.1; H318 STOT SE3; H335 STOT SE3; H336		>= 1 - < 3
Sostanze con un limite di esposizione sul luogo				
di lavoro: butano	106-97-8 203-448-7 601-004-00-0	Gas infiammabile 1; H220 Gas compresso sotto pressione Gas; H280		>= 20 - < 30
molibdeno disolfuro	1317-33-5 215-263-9	Non classificato		>= 1 - < 10
Grafite	7782-42-5 231-955-3	Non classificato		>= 1 - < 10

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Per spiegazioni sulle abbreviazioni vedere sezione 16.

SEZIONE 4: Misure di primo soccorso

4.1 Descrizione delle misure di primo soccorso

- Se inalato : Chiamare immediatamente un medico o un centro antiveleni.
Rimuovere la persona all'aria aperta. Se i segni/sintomi persistono, cercare assistenza medica.
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.
Get medical attention immediately.
- If swallowed : Move the victim to fresh air.
If accidentally swallowed obtain immediate medical attention.
Keep respiratory tract clear.
NON provocare il vomito.
Rinse mouth with water.
Aspiration hazard if swallowed - can enter lungs and cause damage.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Inhalation may provoke the following symptoms:
Unconsciousness
Dizziness
Drowsiness
Headache
Nausea
Tiredness
Skin contact may provoke the following symptoms:
Erythema
- Aspiration may cause pulmonary oedema and pneumonitis.

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Risks : Central nervous system depression
Risk of product entering the lungs on vomiting after ingestion.
Health injuries may be delayed.
Provoca irritazione cutanea.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : ABC powder

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Fire Hazard
Do not let product enter drains.
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
Sulphur oxides
Metal oxides

5.3 Advice for firefighters

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.

Further information : Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Ensure adequate ventilation.
Remove all sources of ignition.

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Do not breathe vapours or spray mist.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Refer to protective measures listed in sections 7 and 8.
Only qualified personnel equipped with suitable protective equipment may intervene.

6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for 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.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe 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.
Avoid contact with skin and eyes.
For personal protection see section 8.
Keep away from fire, sparks and heated surfaces.
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.

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

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handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
butane	106-97-8	STEL	750 ppm 1,810 mg/m ³	GB EH40GB EH40 (2007-08-01)
	Further information: Capable of causing cancer and/or heritable genetic damage.			
		TWA	600 ppm 1,450 mg/m ³	GB EH40GB EH40 (2007-08-01)
	Further information: Capable of causing cancer and/or heritable genetic damage.			
molibdeno disolfuro	1317-33-5	TWA	10 mg/m ³ (Molybdenum)	GB EH40GB EH40 (2005-04-06)
		STEL	20 mg/m ³ (Molybdenum)	GB EH40GB EH40 (2005-04-06)
acetato di n-butilo	123-86-4	TWA	150 ppm 724 mg/m ³	GB EH40GB EH40 (2005-04-06)
		STEL	200 ppm 966 mg/m ³	GB EH40GB EH40 (2005-04-06)
		STEL	150 ppm 723 mg/m ³	2019/1831/E U2019/1831/ EU (2019-10-31)
	Further information: Indicative			

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		TWA	50 ppm 241 mg/m ³	2019/1831/E U2019/1831/ EU (2019-10-31)
Further information: Indicative				
xilene	1330-20-7	TWA	50 ppm 220 mg/m ³	GB EH40GB EH40 (2018-08-01)
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	100 ppm 441 mg/m ³	GB EH40GB EH40 (2018-08-01)
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		TWA	50 ppm 221 mg/m ³	2000/39/EC2 000/39/EC (2000-06-16)
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		STEL	100 ppm 442 mg/m ³	2000/39/EC2 000/39/EC (2000-06-16)
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
etilbenzene	100-41-4	TWA	100 ppm 441 mg/m ³	GB EH40GB EH40 (2005-04-06)
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	125 ppm 552 mg/m ³	GB EH40GB EH40 (2005-04-06)
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		TWA	100 ppm 442 mg/m ³	2000/39/EC2 000/39/EC (2000-06-16)
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		STEL	200 ppm 884 mg/m ³	2000/39/EC2 000/39/EC (2000-06-16)

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	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
butan-1-ol	71-36-3	STEL	50 ppm 154 mg/m ³	GB EH40GB EH40 (2005-04-06)
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
Grafite	7782-42-5	TWA (inhalable dust)	10 mg/m ³	GB EH40GB EH40 (2020-01-01)
		TWA (Respirable dust)	4 mg/m ³	GB EH40GB EH40 (2020-01-01)

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xilene	1330-20-7	methyl hippuric acid: 650 Millimoles per mole Creatinine (Urine)	After shift	GB EH40 BAT (2011-12-18)

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Nafta (petrolio), leggera idrotrattata; Nafta idrogenata a basso punto di ebollizione	Workers	Inhalation	Long-term systemic effects	1300 mg/m ³
	Workers	Inhalation	Long-term local effects	840 mg/m ³
	Workers	Inhalation	Acute local effects	1100 mg/m ³
acetato di n-butilo	Workers	Inhalation	Long-term systemic effects	300 mg/m ³
	Workers	Inhalation	Acute systemic effects	600 mg/m ³
	Workers	Dermal	Long-term local effects	11 mg/cm ²
xilene	Workers	Inhalation	Long-term exposure, Systemic effects	77 mg/m ³
	Workers	Inhalation	Short-term exposure, Systemic effects	289 mg/m ³
	Workers	Skin contact	Long-term exposure, Systemic effects	180 mg/kg
	Consumers	Inhalation	Long-term exposure, Systemic effects	14.8 mg/m ³
	Consumers	Inhalation	Short-term exposure, Systemic effects	174 mg/m ³

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	Consumers	Ingestion	Long-term exposure, Systemic effects	1.6 mg/kg
etilbenzene	Workers	Skin contact	Long-term systemic effects	180 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Workers	Inhalation	Acute local effects	293 mg/m3
butan-1-ol	Workers	Inhalation	Long-term local effects	310 mg/m3
Grafite	Workers	Inhalation	Long-term local effects	1.2 mg/m3

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
acetato di n-butilo	Fresh water	0.18 mg/l
	Marine water	0.018 mg/l
	Microbiological Activity in Sewage Treatment Systems	35.6 mg/l
	Fresh water sediment	0.981 mg/kg
	Marine sediment	0.0981 mg/kg
xilene	Soil	0.09 mg/kg
	Fresh water	0.327 mg/l
	Marine water	0.327 mg/l
	Fresh water sediment	12.46 mg/l
	Marine sediment	12.46 mg/l
etilbenzene	Soil	2.31 mg/kg
	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Intermittent use/release	0.1 mg/l
	Microbiological Activity in Sewage Treatment Systems	9.6 mg/l
butan-1-ol	Fresh water sediment	13.7 mg/kg
	Marine sediment	1.37 mg/kg
	Soil	2.68 mg/kg
	Oral	20 mg/kg
	Fresh water	0.082 mg/l
	Marine water	0.008 mg/l
	Intermittent use/release	2.25 mg/l
	Microbiological Activity in Sewage Treatment Systems	2476 mg/l
	Fresh water sediment	0.324 mg/kg dry weight (d.w.)
	Marine sediment	0.032 mg/kg dry weight (d.w.)
	Soil	0.017 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.

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Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

- Eye protection : Tightly fitting safety goggles
- Hand protection
- Material : butyl-rubber
 - Break through time : > 10 min
 - Protective index : Class 1
- Remarks : Wear 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.
- 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.
- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Short term only
- Filter type : Filter type A-P
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : aerosol
- Colour : black
- Odour : characteristic
- Odour Threshold : No data available
- pH : Not applicable
substance/mixture is non-soluble (in water)
- Melting point/range : No data available

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Boiling point/boiling range : -161 °C (1,013 hPa)

Flash point : -60 °C
Method: Abel-Pensky

Evaporation rate : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper flammability limit : 10.9 %(V)

Lower explosion limit / Lower flammability limit : 0.6 %(V)

Vapour pressure : 3,600 hPa (20 °C)

Relative vapour density : No data available

Relative density : 0.7 (20 °C)
Reference substance: Water
The value is calculated

Density : 0.70 g/cm³
(20 °C)

Bulk density : No data available

Solubility(ies)
Water solubility : insoluble

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

Viscosity, kinematic : < 20.5 mm²/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available

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Metal corrosion rate : Not corrosive to metals

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Remarks: Effects due to ingestion may include:

Symptoms: Central nervous system depression

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

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Remarks: Respiration of solvent vapour may cause dizziness.
Harmful by inhalation.

Symptoms: Inhalation may provoke the following symptoms:
Respiratory disorder, Dizziness, Drowsiness, Vomiting,
Fatigue, Vertigo, Central nervous system depression

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Symptoms: Redness, Local irritation

Components:

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 25.2 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute
inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal
toxicity

isobutane:

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

n-butyl acetate:

Acute oral toxicity : LD50 (Rat): 10,768 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 21 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute
inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 17,600 mg/kg