according to GB/T 16483 and GB/T 17519  $\ensuremath{\text{CN}}$ 



### **OKS 2511**

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#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	OKS 2511
Chemical nature	:	Active agent with propellant and solvent. Metal powder
Manufacturer or supplier's de	etai	ils
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 ch	em	ical and restrictions on use
Recommended use	:	Anticorrosion additive
Restrictions on use	:	Restricted to professional users.

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance	: aerosol
Colour	: grey
Odour	: characteristic

Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye irritation. May cause damage to organs (Liver, Kidney) through prolonged or repeated exposure if swallowed. May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled. Very toxic to aquatic life with long lasting effects.

#### **GHS Classification**

Aerosols	:	Category 1
Skin irritation	:	Category 2



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Eye	irritation	:	Category 2A
	cific target organ toxicity - ated exposure (Oral)	:	Category 2 (Liver, Kidney)
repe	cific target organ toxicity - ated exposure alation)	:	Category 2 (Central nervous system)
Shor haza	t-term (acute) aquatic Ird	:	Category 1
Long haza	g-term (chronic) aquatic ard	:	Category 1
	ard pictograms	:	
Sign	al word	:	Danger
Haza	ard statements	:	<ul> <li>H222 Extremely flammable aerosol.</li> <li>H229 Pressurised container: May burst if heated.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H373 May cause damage to organs (Liver, Kidney) through prolonged or repeated exposure if swallowed.</li> <li>H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>
Prec	autionary statements	:	<ul> <li>Prevention:</li> <li>P210 Keep away from heat/ sparks/ open flames/ hot surfaces No smoking.</li> <li>P211 Do not spray on an open flame or other ignition source.</li> <li>P251 Do not pierce or burn, even after use.</li> <li>P260 Do not breathe mist.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ eye protection/ face protection.</li> <li>Response:</li> <li>P302 + P352 IF ON SKIN: Wash with plenty of water.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P314 Get medical advice/ attention if you feel unwell.</li> <li>P332 + P313 If skin irritation occurs: Get medical advice/ attention.</li> </ul>



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P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

#### Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

#### Disposal:

P501 Dispose of contents/containers according the local government requirements.

#### Physical and chemical hazards

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

#### Health hazards

Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure if swallowed. May cause damage to organs through prolonged or repeated exposure if inhaled.

#### **Environmental hazards**

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

#### 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)
Butane	106-97-8	>= 30 -< 50
Zinc (stabilized)	7440-66-6	>= 25 -< 30
xylene	1330-20-7	>= 10 -< 20
propane	74-98-6	>= 10 -< 20
2-methoxy-1-methylethyl acetate	108-65-6	>= 1 -< 10
Isobutane	75-28-5	>= 1 -< 10
Naphtha (petroleum), hydrotreated light	64742-49-0	>= 1 -< 10
ethylbenzene	100-41-4	>= 2.5 -< 10
n-Butyl acetate	123-86-4	>= 1 -< 2.5
Acetone	67-64-1	>= 1 -< 10

#### 4. FIRST AID MEASURES

If inhaled

: Obtain medical attention.



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		Remove person to fresh air. If signs/symptoms continue medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek med advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration.	-
In ca	ase of skin contact	<ul> <li>Take off all contaminated clothing immediately.</li> <li>Wash off immediately with soap and plenty of water.</li> <li>Get medical attention immediately if irritation develops a persists.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>	and
In ca	ase of eye contact	: Rinse immediately with plenty of water, also under the e for at least 10 minutes. Seek medical advice.	eyelids,
lf sw	allowed	<ul> <li>Move the victim to fresh air.</li> <li>Keep respiratory tract clear.</li> <li>Do NOT induce vomiting.</li> <li>Obtain medical attention.</li> <li>Rinse mouth with water.</li> </ul>	
	t important sympto effects, both acute yed		
Note	es to physician	: 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. Contains gas under pressure; may explode if heated. Beware of vapours accumulating to form explosive



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			concentrations. Vapours can accumulate in low areas.
Haza prod	ardous combustior ucts	n :	Carbon oxides Metal oxides
Spec meth	cific extinguishing nods	:	Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers/tanks with water spray.
	cial protective equi refighters	pment :	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. If the product contaminates rivers and lakes or drains inform respective authorities.
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.
		Avoid contact with skin and eyes.
		For personal protection see section 8.



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			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 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.
Avoi	dance of contact	:	Oxidizing agents
Stor	age		
Con	ditions for safe stor	age :	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.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis			
Butane	106-97-8	STEL	1,000 ppm	ACGIH (2018-03-20)			
xylene	1330-20-7	PC-TWA	50 mg/m3	CN OEL (2019-08-27)			
		PC-STEL	100 mg/m3	CN OEL (2019-08-27)			
		TWA	100 ppm	ACGIH (2021-01-01)			
		STEL	150 ppm	ACGIH (2021-01-01)			
Isobutane	75-28-5	STEL	1,000 ppm	ACGIH (2018-03-20)			
ethylbenzene	100-41-4	PC-TWA	100 mg/m3	CN OEL (2019-08-27)			
	Further infor	Further information: G2B - Possibly carcinogenic to humans					
		PC-STEL	150 mg/m3	CN OEL (2019-08-27)			



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	Further infor	Further information: G2B - Possibly carcinogenic to humans					
		TWA	20 ppm	ACGIH			
				(2021-01-01)			
n-Butyl acetate	123-86-4	PC-TWA	200 mg/m3	CN OEL			
				(2019-08-27)			
		PC-STEL	300 mg/m3	CN OEL			
				(2019-08-27)			
		TWA	50 ppm	ACGIH			
				(2017-03-01)			
		STEL	150 ppm	ACGIH			
				(2017-03-01)			
Acetone	67-64-1	PC-TWA	300 mg/m3	CN OEL			
			_	(2019-08-27)			
		PC-STEL	450 mg/m3	CN OEL			
			_	(2019-08-27)			
		TWA	250 ppm	ACGIH			
				(2021-01-01)			
		STEL	500 ppm	ACGIH			
				(2021-01-01)			

#### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
xylene	1330-20-7	methylhippu ric acids	Urine	End of shift	0.3 g/g creatinine	CN BEI (2019-08- 27)
		methylhippu ric acids	Urine	End of shift	0.4 g/l	CN BEI (2019-08- 27)
		Methylhippu ric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI (2013-03- 01)
ethylbenzene	100-41-4	Mandelic acid and phenylglyox ylic acid ( MA and PGA)	Urine	End of shift	0.8 g/g creatinine	CN BEI (2019-08- 27)
		Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI (2016-03- 01)
Acetone	67-64-1	Acetone	Urine	End of	50 mg/l	CN BEI



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				shift		(2019-08- 27)	
		Acetone	Urine	End of shift (As soon as possible after exposure ceases)	25 mg/l	ACGIH BEI (2017-03- 01)	
Engineering measures	ve Ha	e only in an ar ntilation. andle only in a p propriate exha	place equip		•		
Personal protective equi	pment						
Respiratory protection	ve	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.					
Filter type	: Re	: Recommended Filter type:					
		Organic gas a	nd low boili	ng vapour ty	/pe		
Eye/face protection	: Sa	: Safety glasses with side-shields					
Skin and body protection	CO	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 Break through time Protective index	: >'	trile rubber 10 min ass 1					
Remarks	an typ	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.					
Protective measures	to	e type of prote the concentrati the specific wo	on and am				
Hygiene measures		ash face, hand ndling.	s and any e	exposed skin	thoroughly af	ter	

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: aerosol

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Version 1.10			st issue: 2021-04-19 st issue: 2014-04-08 Print Date: 2022-12-06
Co	lour	:	grey
Od	lour	:	characteristic
Od	lour Threshold	:	No data available
рН	рН		Not applicable substance/mixture is non-soluble (in water)
Me	elting point/range	:	No data available
Во	iling point/boiling range	e :	-41 °C (1,013 hPa)
Fla	ish point	:	-60.00 °C
			Method: Abel-Pensky, closed cup
Ev	aporation rate	:	No data available
Fla	mmability (solid, gas)	:	Extremely flammable aerosol.
Se	lf-ignition	:	not auto-flammable
	per explosion limit / Up mmability limit	oper :	10.9 %(V)
	wer explosion limit / Lc mmability limit	ower :	1.1 %(V)
Va	pour pressure	:	4,000 hPa (20 °C)
Re	lative vapour density	:	No data available
Re	lative density	:	0.8 (20 °C) Reference substance: Water The value is calculated
De	nsity	:	0.80 g/cm3 (20 °C)
Bu	lk density	:	No data available
So	lubility(ies) Water solubility	:	insoluble



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	Sc	olubility in other so	lvents	:	No data available	
		ion coefficient: n- ol/water		:	No data available	
	Auto-	ignition temperatu	re	:	No data available	
	Deco	mposition tempera	ature	:	No data available	
	Visco Vis	sity scosity, dynamic		:	No data available	
	Vi	scosity, kinematic		:	not determined	
	Explo	sive properties		:	Not explosive	
	Oxidiz	zing properties		-	No data available	
	Sublir	mation point		:	No data available	
	Metal	corrosion rate		:	Not corrosive to met	tals

10. STABI	LITY AND REACTIVITY		
React	ivity	:	No hazards to be specially mentioned.
Chem	ical stability	:	Stable under normal conditions.
Possil reactio	bility of hazardous ons	:	No dangerous reaction known under conditions of normal use.
Condi	tions to avoid	:	Heat, flames and sparks. Strong sunlight for prolonged periods. Risk of receptacle bursting.
Incom	patible materials	:	Oxidizing agents
Hazar produ	dous decomposition cts	:	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



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Acute	e inhalation toxicity	: Remarks: Harmful by inhalation.
		Symptoms: Inhalation may provoke the following symptoms:, Respiratory disorder
		Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute	e dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
		Symptoms: Redness, Local irritation
Com	ponents:	
Buta	_	
Acute	e inhalation toxicity	: LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas
Zinc	(stabilized):	
	e oral toxicity	<ul> <li>LD50 (Rat): &gt; 2,000 mg/kg Method: OECD Test Guideline 401 GLP: yes Assessment: The substance or mixture has no acute oral toxicity</li> </ul>
Acute	e inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 5.41 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity</li> </ul>
xylei		
Acute	e oral toxicity	: LD50 (Rat): 4,300 mg/kg



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Acute	e inhalation toxicity	/ :	Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute	e dermal toxicity	:	Assessment: The component/mixture is moderately toxic after single contact with skin.
2-me	thoxy-1-methyle	hyl aceta	te:
Acute	e oral toxicity	:	LD50 (Rat): 6,190 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute	e inhalation toxicity	/ :	LC50 (Rat): 35.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute	e dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402
	u <b>tane:</b> e inhalation toxicity	/ :	LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas
Nanh	itha (petroleum),	hydrotre	ated light.
-	e oral toxicity	:	LD50 Oral (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute	e dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402
ethyl	benzene:		
-	e oral toxicity	:	LD50 (Rat): 3,500 mg/kg
Acute	e inhalation toxicity	/ :	LC50 (Rat): 17.2 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute	e dermal toxicity	:	LD50 (Rabbit): 15,400 mg/kg



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	<b>ityl acetate:</b> e oral toxicity		LD50 (Rat): 10,768 mg/kg
71001	e oral toxicity	•	
Acut	e inhalation toxicity	v :	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
Acut	e dermal toxicity	:	LD50 (Rabbit): > 17,600 mg/kg
Acet	one:		
	e oral toxicity	:	LD50 Oral (Rat): 5,800 mg/kg
Skin	corrosion/irritatio	on	
	<u>luct:</u>		
Rem	arks	:	Irritating to skin.
Com	ponents:		
Zinc	(stabilized):		
Spec	cies essment	:	Rabbit No skin irritation
Resu		:	No skin irritation
xyle	ne:		
Spec	cies essment	:	Rabbit
Resu		:	Irritating to skin. Irritating to skin.
2-me	ethoxy-1-methylet	hyl aceta	te:
Spec		:	Rabbit
Asse Meth	essment nod		No skin irritation OECD Test Guideline 404
Resu	ult	:	No skin irritation
GLP		:	yes



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#### ethylbenzene:

Species	:	Rabbit
Result	:	Mild skin irritation

#### n-Butyl acetate:

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/eye irritation

#### Product:

Remarks : Irritating to eyes.

#### **Components:**

#### Zinc (stabilized):

Species	:	Rabbit
Result	:	No eye irritation
Exposure time	:	24 h
Assessment		No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes
Exposure time Assessment Method	:	24 h No eye irritation OECD Test Guideline 405

#### xylene:

Species	:	Rabbit
Result	:	Irritating to eyes.
Assessment	:	Irritating to eyes.

#### 2-methoxy-1-methylethyl acetate:

Species	
Result	
Assessment	
Method	
GLP	

Rabbit
No eye irritation
No eye irritation
OECD Test Guideline 405
yes

#### ethylbenzene:

Species	:	Rabbit
Result	:	No eye irritation



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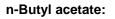
sion )	Revision Date: 2022-12-06	Date of last issue: 2021-04-19 Date of first issue: 2014-04-08 Print Date: 2022-12-06
Asse	essment	: No eye irritation
n-Bu	ityl acetate:	
Spec	-	: Rabbit
Resu		: No eye irritation
Asse	essment	: No eye irritation
Meth	od	: OECD Test Guideline 405
GLP		: yes
Acet	one:	
Spec		: Rabbit
Resu		: Eye irritation
Resp	piratory or skin s	ensitisation
Prod	luct:	
Rem		: This information is not available.
Com	popopta	
Zinc Spec		: Guinea pig
Zinc Spec Asse	(stabilized): cies essment	: Did not cause sensitisation on laboratory animals.
Zinc Spec Asse Meth	(stabilized): cies essment od	<ul><li>Did not cause sensitisation on laboratory animals.</li><li>OECD Test Guideline 406</li></ul>
Zinc Spec Asse	(stabilized): cies essment od	: Did not cause sensitisation on laboratory animals.
Zinc Spec Asse Meth Resu GLP	(stabilized): cies essment iod ilt	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> </ul>
Zinc Spec Asse Meth Resu GLP	(stabilized): sessment ood ult	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> </ul>
Zinc Spec Asse Meth Resu GLP xyler Spec	(stabilized): sessment ood ult	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> <li>Mouse</li> </ul>
Zinc Spec Asse Meth Resu GLP xyler Spec	(stabilized): bies bissment hod ult ne: bies bissment	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> </ul>
Zinc Spec Asse Meth Resu GLP <b>xyle</b> Spec Asse	(stabilized): bies essment od ult ne: bies essment od	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> <li>Mouse</li> <li>Did not cause sensitisation on laboratory animals.</li> </ul>
Zinc Spec Asse Meth Resu GLP Xyler Spec Asse Meth Resu	(stabilized): bies essment add ult ne: bies essment add ult	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> <li>Mouse</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 429</li> <li>Did not cause sensitisation on laboratory animals.</li> </ul>
Zinc Spec Asse Meth Resu GLP Xyler Spec Asse Meth Resu 2-me	(stabilized): bissment od ult ne: bissment od ult ethoxy-1-methyle	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> <li>Mouse</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 429</li> <li>Did not cause sensitisation on laboratory animals.</li> </ul>
Zinc Spec Asse Meth Resu GLP Xylen Spec Asse Meth Resu 2-me Test	(stabilized): cies essment od ult ne: cies essment od ult ethoxy-1-methyle Type	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> <li>Mouse</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 429</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 429</li> <li>Did not cause sensitisation on laboratory animals.</li> </ul>
Zinc Spec Asse Meth Resu GLP Xylen Spec Asse Meth Resu Z-me Test Spec	(stabilized): cies essment od ult ne: cies essment od ult ethoxy-1-methyle Type	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> <li>Mouse</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 429</li> <li>Did not cause sensitisation on laboratory animals.</li> </ul>
Zinc Spec Asse Meth Resu GLP Xylen Spec Asse Meth Resu Z-me Test Spec	(stabilized): bioses personent biod ult ne: bioses personent biod ult ethoxy-1-methyle Type bios personent	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> <li>Mouse</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 429</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 429</li> <li>Did not cause sensitisation on laboratory animals.</li> </ul>
Zinc Spec Asse Meth Resu GLP Xyler Spec Asse Meth Resu Z-me Test Spec Asse	(stabilized): bies essment od ult ne: bies essment od ult ethoxy-1-methyle Type bies essment od	<ul> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 406</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>yes</li> <li>Mouse</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 429</li> <li>Did not cause sensitisation on laboratory animals.</li> <li>OECD Test Guideline 429</li> <li>Did not cause sensitisation on laboratory animals.</li> </ul>



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



sion 0	Revision Date: 2022-12-06	Date of last issue: 2021-04-19 Date of first issue: 2014-04-08 Print Date: 2022-12-06
ethy	Ibenzene:	
Asse	essment	: Does not cause skin sensitisation.
Resu	ılt	: Does not cause skin sensitisation.
n-Bı	ityl acetate:	
Test	Туре	: Maximisation Test
	sure routes	: Dermal
Spec		: Guinea pig
	essment	: Does not cause skin sensitisation.
Meth		: OECD Test Guideline 406
Resu	lit	: Does not cause skin sensitisation.
Gerr	n cell mutagenici	ty
Proc	luct:	
Gen	otoxicity in vitro	: Remarks: No data available
Gen	otoxicity in vivo	: Remarks: No data available
<u>Com</u>	ponents:	
Zinc	(stabilized):	
	n cell mutagenicity essment	- : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
xyle	ne:	
	n cell mutagenicity essment	- : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
2-me	ethoxy-1-methyle	thyl acetate:
Gern	n cell mutagenicity	- : Tests on bacterial or mammalian cell cultures did not show
	essment	mutagenic effects., Animal testing did not show any mutag effects.
ethy	lbenzene:	
	n cell mutagenicity	- : Tests on bacterial or mammalian cell cultures did not show





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Version 1.10	Revision Date: 2022-12-06		sue: 2021-04-19 sue: 2014-04-08 Print Date: 2022-12-06
Geno	otoxicity in vitro	Tes Me	at Type: Ames test at system: Salmonella typhimurium ahod: OECD Test Guideline 471 sult: negative
		Tes Me	at Type: Chromosome aberration test in vitro at system: Chinese hamster cells shod: OECD Test Guideline 473 sult: negative
Geno	otoxicity in vivo	Apr Me	ecies: Mouse plication Route: Oral hod: OECD Test Guideline 474 sult: negative
	n cell mutagenicity essment	mu	ets on bacterial or mammalian cell cultures did not show agenic effects., Animal testing did not show any mutagenic ects.
Carc	inogenicity		
<u>Proc</u> Rem		: No	data available
Com	ponents:		
Carc	(stabilized): inogenicity - essment	: No	evidence of carcinogenicity in animal studies.
	<b>ne:</b> inogenicity - essment	: Not	classifiable as a human carcinogen.
	ethoxy-1-methyle	•	
	inogenicity - essment	: Not	classifiable as a human carcinogen.
ethy	Ibenzene:		
	inogenicity - essment	: Not	classifiable as a human carcinogen.
n-Bı	ityl acetate:		



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ersion 10	Revision Date: 2022-12-06		ast issue: 2021-04-19 rst issue: 2014-04-08 Print Date: 2022-12-06
	inogenicity - essment	:	Not classifiable as a human carcinogen.
Rep	roductive toxicity	,	
Proc	luct:		
Effec	cts on fertility	:	Remarks: No data available
	cts on foetal elopment	:	Remarks: No data available
<u>Com</u>	ponents:		
Zinc	(stabilized):		
	roductive toxicity -	:	- Fertility -
Asse	essment		No toxicity to reproduction - Teratogenicity -
			No effects on or via lactation
xyle	ne:		
-	roductive toxicity -	:	- Fertility -
Asse	Assessment		No toxicity to reproduction - Teratogenicity -
			No toxicity to reproduction
0		thul acata	4
	ethoxy-1-methyle roductive toxicity -	tnyi aceta	- Fertility -
-	Assessment		No toxicity to reproduction - Teratogenicity -
			No toxicity to reproduction
ethv	lbenzene:		
ethylbenzene: Reproductive toxicity - Assessment	roductive toxicity -	:	- Fertility -
		No toxicity to reproduction - Teratogenicity -	
			No toxicity to reproduction
n-Bı	ityl acetate:		



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Version 1.10	Revision Date: 2022-12-06	ate of last issue: 2021-04-19 ate of first issue: 2014-04-08 Print Date: 2022-12-06	
Effec	cts on fertility	: Test Type: Two-generation study Species: Rat Application Route: inhalation (vapour) General Toxicity - Parent: NOAEC: 750 mg/l General Toxicity F1: NOAEC: 750 mg/l General Toxicity F2: NOAEC: 750 mg/l Method: OECD Test Guideline 416 Result: Embryotoxic effects and adverse effects of offspring were detected.	on the
	oductive toxicity -	: - Fertility -	
Asse	essment	No evidence of adverse effects on sexual functior or on development, based on animal experiments - Teratogenicity -	
		No toxicity to reproduction	
STO	T - single exposu		
	ponents:		
xylei	ne:		
Targ	osure routes et Organs essment	<ul> <li>Inhalation</li> <li>Respiratory system</li> <li>The substance or mixture is classified as specific toxicant, single exposure, category 3 with respirat irritation.</li> </ul>	
2-me	ethoxy-1-methylet	acetate:	
Expo Targ	osure routes et Organs essment		
ethy	lbenzene:		
Asse	essment	: The substance or mixture is not classified as specorgan toxicant, single exposure.	cific target
Expo Targ	<b>ityl acetate:</b> osure routes et Organs essment	<ul> <li>Inhalation</li> <li>Central nervous system</li> <li>The substance or mixture is classified as specific toxicant, single exposure, category 3 with narcotic</li> </ul>	



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#### Acetone:

Exposure routes	:	Inhalation
Assessment	:	May cause drowsiness or dizziness.

#### STOT - repeated exposure

xylene:	
Exposure routes Target Organs Assessment	<ul> <li>Inhalation</li> <li>Central nervous system</li> <li>The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.</li> </ul>
Exposure routes	· Indestion

Exposure routes		Ingestion
Target Organs	:	Liver, Kidney
Assessment	:	The substance or mixture is classified as specific target organ
		toxicant, repeated exposure, category 2.

#### 2-methoxy-1-methylethyl acetate:

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

#### ethylbenzene:

Exposure routes	:	Inhalation
Target Organs	:	hearing organs
Assessment	:	The substance or mixture is classified as specific target organ
		toxicant, repeated exposure, category 2.

#### n-Butyl acetate:

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.



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#### Components:

#### n-Butyl acetate:

Species	:	Rat
NOAEL	:	125 mg/kg
Application Route	:	Oral

#### Aspiration toxicity

#### Product:

This information is not available.

#### Components:

Zinc (stabilized): No aspiration toxicity classification

#### xylene:

May be fatal if swallowed and enters airways.

#### 2-methoxy-1-methylethyl acetate:

No aspiration toxicity classification

#### Naphtha (petroleum), hydrotreated light:

May be fatal if swallowed and enters airways.

ethylbenzene: May be fatal if swallowed and enters airways.

2

**n-Butyl acetate:** No aspiration toxicity classification

#### **Further information**

#### Product:

Remarks

Risks of irreversible effects after a single exposure. Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.



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Possible risk of irreversible effects.

ECOLOGICAL INFORMATION	1	
Ecotoxicity		
<u>Product:</u> Toxicity to fish	:	Remarks: 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
<u>Components:</u>		
Zinc (stabilized): Toxicity to fish	:	LC50 (Oncorhynchus kisutch (coho salmon)): 0.727 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.937 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
M-Factor (Acute aquatic toxicity)	:	1
M-Factor (Chronic aquatic toxicity)	:	1
Ecotoxicology Assessment Acute aquatic toxicity		Very toxic to aquatic life.



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	Chror	nic aquatic toxicity		:	Very toxic to aquatic life with long lasting effects.
	<b>xylen</b> Toxic	<b>ie:</b> ity to fish		:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
		ity to daphnia and tic invertebrates	other	:	EC50 (Daphnia magna (Water flea)): 3.82 mg/l Exposure time: 48 h Test Type: flow-through test
	Toxic plants	ity to algae/aquatic S	;	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 2.2 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
	Toxic toxici	ity to fish (Chronic ty)		:	NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l Exposure time: 56 d Test Type: flow-through test
	aquat	ity to daphnia and tic invertebrates onic toxicity)	other	:	EC50 (Daphnia magna (Water flea)): 2.90 mg/l Exposure time: 21 d Test Type: static test Method: OECD Test Guideline 211 GLP: yes
	Toxic	ity to microorganis	ms	:	EC50 (activated sludge): > 157 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
		<b>thoxy-1-methyletl</b> ity to fish	nyl ace	tat :	e: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 - 180 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
	Toxic	ity to daphnia and	other	:	EC50 (Daphnia magna (Water flea)): 373 mg/l



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Versio 1.10	on	Revision Date: 2022-12-06			st issue: 2021-04-19 st issue: 2014-04-08 Print Date: 2022-12-06
a	aquati	c invertebrates			Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
	Foxici plants	ty to algae/aquati	С	:	NOEC (Pseudokirchneriella subcapitata (green algae)): >= 1,000 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
а	aquati	ty to daphnia and c invertebrates nic toxicity)	other	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 21 d Test Type: Reproduction Test Method: OECD Test Guideline 211
Т	Foxici	ty to microorganis	sms	:	EC10 (activated sludge): > 1,000 mg/l Exposure time: 0.5 h Test Type: static test Method: OECD Test Guideline 209
	-	<b>benzene:</b> ty to fish		:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
		ty to daphnia and c invertebrates	other	:	EC50 (Daphnia magna (Water flea)): 2.4 mg/l Exposure time: 48 h Test Type: static test
	Foxici plants	ty to algae/aquati	C	:	EC50 (Skeletonema costatum (marine diatom)): 4.6 mg/l Exposure time: 72 h Test Type: static test
	Foxici oxicit	ty to fish (Chronic y)	:	:	NOEC: 3.3 mg/l Exposure time: 96 d
а	aquati	ty to daphnia and ic invertebrates nic toxicity)	other	:	NOEC (Ceriodaphnia dubia (water flea)): 0.96 mg/l Exposure time: 7 d Test Type: semi-static test



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Version 1.10	Revision Date: 2022-12-06		ast issue: 2021-04-19 rst issue: 2014-04-08 Print Date: 2022-12-06
	<b>ityl acetate:</b> city to fish	:	LC50 (Pimephales promelas (fathead minnow)): 18 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203
	city to daphnia and ttic invertebrates	d other :	EC50 (Daphnia (water flea)): 44 mg/l Exposure time: 48 h Test Type: static test
Toxic plant	city to algae/aquat s	ic :	EC50 (Desmodesmus subspicatus (green algae)): 397 mg/l Exposure time: 72 h Test Type: static test
aqua	city to daphnia and tic invertebrates onic toxicity)	d other :	NOEC (Daphnia magna (Water flea)): 23 mg/l Exposure time: 21 d Test Type: Reproduction Test GLP: yes
Τοχία	city to microorgani	sms :	EC50 (Tetrahymena pyriformis): 356 mg/l Exposure time: 40 h Test Type: Growth inhibition
Pers	istence and degr	adability	
<u>Prod</u> Biode	<b>luct:</b> egradability	:	Remarks: No data available
	sico-chemical ovability	:	Remarks: No data available
Com	ponents:		
<b>xyle</b> i Biode	<b>ne:</b> egradability	:	Result: Readily biodegradable.
2-me	ethoxy-1-methyle	thyl aceta	te:
Biode	egradability	:	aerobic Inoculum: activated sludge Result: rapidly biodegradable Biodegradation: 83 %



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Version 1.10	Revision Date: 2022-12-06		ist issue: 2021-04-19 rst issue: 2014-04-08 Print Date: 2022-12-06
			Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes
Nanł	ntha (petroleum),	hydrotrea	ted light:
-	egradability	:	Result: Not readily biodegradable.
ethy	lbenzene:		
-	egradability	:	Result: Readily biodegradable.
	t <b>yl acetate:</b> egradability	:	Primary biodegradation Result: rapidly biodegradable Biodegradation: 83 % Exposure time: 28 d Method: OECD Test Guideline 301D
Acet	one:		
Biode	egradability	:	Result: rapidly biodegradable
Bioa	ccumulative pote	ential	
<u>Prod</u> Bioad	l <u>uct:</u> ccumulation	:	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).
<u>Com</u>	ponents:		
	<b>ne:</b> tion coefficient: n- nol/water	:	log Pow: 2.89 Method: OECD Test Guideline 107
<b>xyler</b> Bioad	<b>ne:</b> ccumulation	:	Bioconcentration factor (BCF): 25.9
	tion coefficient: n- nol/water	:	log Pow: 2.77 - 3.15



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#### propane:

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

#### 2-methoxy-1-methylethyl acetate:

Bioaccumulation	:	Bioconcentration factor (BCF): 3.16
Partition coefficient: n- octanol/water	:	log Pow: 0.36 (25 °C) Method: OECD Test Guideline 107 GLP: yes

#### Isobutane:

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

#### Naphtha (petroleum), hydrotreated light:

Bioaccumulation	:	Remarks: No data available
Partition coefficient: n- octanol/water	:	Remarks: No data available
ethylbenzene:		
Bioaccumulation	:	Bioconcentration factor (BCF): 1
Partition coefficient: n- octanol/water	:	log Pow: 3.6 (20 °C)
n-Butyl acetate:		
Partition coefficient: n- octanol/water	:	log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes
Acetone:		
Bioaccumulation	:	Remarks: Does not bioaccumulate.

Partition coefficient: n- : log Pow: 0.2 octanol/water



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#### Mobility in soil

#### Product:

Mobility	:	Remarks: No data available
Distribution among environmental compartments	:	Remarks: No data available
Other adverse effects		
Product: Additional ecological information	:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# Components:

#### xylene:

Results of PBT and vPvB	:	Non-classified PBT substance Non-classified vPvB substance
assessment		

#### 2-methoxy-1-methylethyl acetate:

Results of PBT and vPvB	:	Non-classified PBT substance Non-classified vPvB substance
assessment		

#### ethylbenzene:

Results of PBT and vPvB	:	Non-classified PBT substance Non-classified vPvB substance
assessment		

#### n-Butyl acetate:

Results of PBT and vPvB	:	Non-classified PBT substance Non-classified vPvB substance
assessment		

### **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.



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#### **14. TRANSPORT INFORMATION**

#### International Regulations

<b>UNRTDG</b> UN number Proper shipping name Class Packing group Labels	<ul> <li>UN 1950</li> <li>AEROSOLS</li> <li>2.1</li> <li>Not assigned by regulation</li> <li>2.1</li> </ul>	
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	<ul> <li>UN 1950</li> <li>Aerosols, flammable</li> <li>2.1</li> <li>Not assigned by regulation</li> <li>Flammable Gas</li> <li>203</li> <li>203</li> </ul>	
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	<ul> <li>UN 1950</li> <li>AEROSOLS (zinc powder - zinc dust (stabilized))</li> <li>2.1</li> <li>Not assigned by regulation</li> <li>2.1</li> <li>F-D, S-U</li> <li>yes</li> </ul>	

#### 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.



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#### **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		
OKS 2511		Listed	2828	
List of ingredients	CAS-No.	Status	Reference number	
Butane	106-97-8	Listed	2778	
Zinc (stabilized)	7440-66-6	Listed	2358	
xylene	1330-20-7	Listed	358	
propane	74-98-6	Listed	139	
Isobutane	75-28-5	Listed	2707	
ethylbenzene	100-41-4	Listed	2566	
n-Butyl acetate	123-86-4	Listed	2657	
Acetone	67-64-1	Listed	137	

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218) Category Aerosols 150 t

Hazardous Chemicals for Priority Management under : Not applicable SAWS

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 : Not applicable



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#### and Export

#### International Regulations

Montreal Protocol	:	Not applicable
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 ACGIH BEI CN BEI CN OEL	<ul> <li>USA. ACGIH Threshold Limit Values (TLV)</li> <li>ACGIH - Biological Exposure Indices (BEI)</li> <li>China. Biological Occupational Exposure Indices</li> <li>Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.</li> </ul>
	: 8-hour time-weighted average

o-nour, line-weighted average
Short-term exposure limit
Permissible concentration - time weighted average
Permissible concentration - 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



#### SAFETY DATA SHEET according to GB/T 16483 and GB/T 17519

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#### **OKS 2511**

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

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