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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : OKS 2511

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				
Emergency telephone number	:	+7 495 628 1687 +49 8142 3051 517				
Recommended use of the chemical and restrictions on use						
Recommended use	:	Anticorrosion additive				
Restrictions on use	:	Restricted to professional users.				

2. HAZARDS IDENTIFICATION

GHS Classification (According to GOST 32423, GOST 32424 and GOST 32425)

Aerosols	:	Category 1
Acute toxicity (Inhalation)	:	Category 5
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Specific target organ toxicity - repeated exposure (Inhalation)	:	Category 2 (Auditory system)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS-Labelling (According to GOST 31340)



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Hazard pictograms			
Signa	al word	: Danger	
Haza	ard statements	 H222 Extremely flammable aero H229 Pressurised container: Ma H315 Causes skin irritation. H319 Causes serious eye irritati H333 May be harmful if inhaled. H373 May cause damage to org prolonged or repeated exposure H410 Very toxic to aquatic life w 	ay burst if heated. ion. gans (Auditory system) through e if inhaled.
Preca	autionary statements	 Prevention: P210 Keep away from heat, hot and other ignition sources. No s P211 Do not spray on an open f P251 Do not pierce or burn, eve P260 Do not breathe mist. P273 Avoid release to the enviro 	moking. lame or other ignition source. n after use.
		Storage: P410 + P412 Protect from sunlig temperatures exceeding 50 °C/	

Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture	:	Mixture
Chemical nature	:	Active agent with propellant and solvent. Metal powder

Components

Chemical name	Concentration (% w/w)	Occupational E Limits	xposure	CAS-No.	EC-No.
		MAC value mg/m3 / TSEL value	Hazard Class		
butane	>= 30 - < 50	MPC-TWA: 300 mg/m3 Data Source: RU OEL	4	106-97-8	203-448-7
		MPC-STEL:	4		







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		900 mg/m3 Data Source: RU OEL			
zinc powder — zinc dust (stabilised)	>= 25 - < 30	No data available		7440-66-6	231-175-3
reaction mass of ethylbenzene and xylene	>= 10 - < 20	MPC-TWA: 50 mg/m3 Data Source: RU OEL	3		905-588-0
		MPC-STEL: 150 mg/m3 Data Source: RU OEL	3		
propane	>= 10 - < 20	No data available		74-98-6	200-827-9
2-methoxy-1-methylethyl acetate	>= 1 - < 10	MPC-STEL: 10 mg/m3 Data Source: RU OEL	4	108-65-6	203-603-9
isobutane	>= 1 - < 10	No data available		75-28-5	200-857-2
Hydrocarbons, C11- C12, isoalkanes, < 2% aromatics	>= 1 - < 10	No data available			918-167-1
n-butyl acetate	>= 1 - < 2,5	MPC-TWA: 50 mg/m3 Data Source: RU OEL	4	123-86-4	204-658-1
		MPC-STEL: 200 mg/m3 Data Source: RU OEL	4		
acetone	>= 1 - < 10	MPC-TWA: 200 mg/m3 Data Source: RU OEL	4	67-64-1	200-662-2
		MPC-STEL: 800 mg/m3	4		





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		Data Source: RU OEL		
4. FIRST AID MEASURES				

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. Seek medical advice.
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. Inhalation may provoke the following symptoms: Unconsciousness Dizziness Drowsiness Headache Nausea Tiredness Skin contact may provoke the following symptoms: Erythema
Notes to physician	:	Treat symptomatically.



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5. FIREFIGHTING MEASURES

Flammable properties		
Flash point	:	-60,00 °C Method: Abel-Pensky, closed cup
Ignition temperature	:	No data available
Upper explosion limit / Upper flammability limit	:	10,9 %(V)
Lower explosion limit / Lower flammability limit	:	1,1 %(V)
Flammability (solid, gas)	:	Extremely flammable aerosol.
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 concentrations. Vapours can accumulate in low areas.
Hazardous combustion products	:	Carbon oxides Metal oxides
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.
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,	:	Evacuate personnel to safe areas.
protective equipment and		Ensure adequate ventilation.
emergency procedures		Remove all sources of ignition.
		Do not breathe vapours or spray mist.
		Refer to protective measures listed in sections 7 and 8.
		Only qualified personnel equipped with suitable protective
		equipment may intervene.





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Enviro	onmental precautions	:	Do not allow contact with soil, surface Prevent further leakage or spillage if s If the product contaminates rivers and respective authorities.	afe to do so.
	nds and materials for nment and cleaning up	:	Contain spillage, and then collect with absorbent material, (e.g. sand, earth, vermiculite) and place in container for local / national regulations (see sectio Keep in suitable, closed containers for Non-sparking tools should be used.	diatomaceous earth, disposal according to n 13).

7. HANDLING AND STORAGE

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.
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Data Source
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	



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butane	106-97-8	MPC-TWA	300 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		
	Further informa	ation: Class 4 -		1
		MPC-STEL	900 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		
		ation: Class 4 -		· · · · · ·
reaction mass of ethylbenzene	Not Assigned	TWA	50 ppm	2000/39/EC
and xylene			221 mg/m3	(2000-06-16)
		STEL	100 ppm	2000/39/EC
			442 mg/m3	(2000-06-16)
		MPC-TWA	50 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		
	Further informa		Moderately dangerou	
		MPC-STEL	150 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		
	Further informa	ation: Class 3 -	Moderately dangerou	S
2-methoxy-1-methylethyl	108-65-6	TWA	50 ppm	2000/39/EC
acetate			275 mg/m3	(2000-06-16)
		STEL	100 ppm	2000/39/EC
			550 mg/m3	(2000-06-16)
		MPC-STEL	10 mg/m3	RU OEL
		(vapour	_	(2021-02-03)
		and/or gas)		
	Further informa	ation: Class 4 -	Low hazard	
n-butyl acetate	123-86-4	STEL	150 ppm	2019/1831/E
			723 mg/m3	U
			-	(2019-10-31)
		TWA	50 ppm	2019/1831/E
			241 mg/m3	U
				(2019-10-31)
		MPC-TWA	50 mg/m3	RUOEL
		(vapour	U U	(2021-02-03)
		and/or gas)		
	Further informa	ation: Class 4 -	Low hazard	
		MPC-STEL	200 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		(0 00)
	Further informa	ation: Class 4 -	Low hazard	
acetone	67-64-1	TWA	500 ppm	2000/39/EC
			1.210 mg/m3	(2000-06-16)
	1	MPC-TWA	200 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		
	Further inform	ation: Class 4 -	l ow hazard	
		MPC-STEL	800 mg/m3	RU OEL
		(vapour	000 mg/ms	
				(2021-02-03)
		and/or gas)		



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			Further information: Class 4 - Low	hazard
Engi	neering measures	:	Use only in an area equipped with ventilation. Handle only in a place equipped v appropriate exhaust).	
Pers	onal protective equip	oment		
Resp	piratory protection	:	Use respiratory protection unless ventilation is provided or exposure that exposures are within recomm	e assessment demonstrates
Fi	ilter type	:	Recommended Filter type:	
			Organic gas and low boiling va	apour type
M B	d protection laterial reak through time rotective index	: :	Nitrile rubber > 10 min Class 1	
R	emarks	:	Wear protective gloves. The brea amongst other things on the mate type of glove and therefore has to case.	rial, the thickness and the
Eye	protection	:	Safety glasses with side-shields	
Skin	and body protection	:	Choose body protection in relation concentration and amount of dang the specific work-place.	
Prote	ective measures	:	The type of protective equipment to the concentration and amount of at the specific workplace.	
Hygi	ene measures	:	Wash face, hands and any expos handling.	ed skin thoroughly after

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: aerosol	
Colour	: grey	
Odour	: characteristic	
Odour Threshold	: No data available	a brand



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рН		:	Not applicable substance/mixture is non-soluble (in w	ater)
Melting	point/range	:	No data available	
Boiling	point/boiling range	:	-41 °C (1.013 hPa)	
Flash p	ooint	:	-60,00 °C	
			Method: Abel-Pensky, closed cup	
Evapor	ation rate	:	No data available	
Flamma	ability (solid, gas)	:	Extremely flammable aerosol.	
Self-igr	nition	:	not auto-flammable	
	explosion limit / Upper Ibility limit	:	10,9 %(V)	
	explosion limit / Lower bility limit	:	1,1 %(V)	
Vapour	pressure	:	4.000 hPa (20 °C)	
Relative	e vapour density	:	No data available	
Relativ	e density	:	0,8 (20 °C) Reference substance: Water The value is calculated	
Density	/	:	0,80 g/cm3 (20 °C)	
Bulk de	ensity	:	No data available	
Solubili Wat	ty(ies) er solubility	:	insoluble	
Solu	ubility in other solvents	s :	No data available	
Partitio octanol	n coefficient: n- /water	:	No data available	
Auto-ig	nition temperature	:	No data available	
Decom	position temperature	:	No data available	
Viscosi	ty			



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Viscosity, dynamic	: No data available	
Viscosity, kinematic	: not determined	
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 :	Acute toxicity estimate: 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
	Remarks: Harmful by inhalation.

Symptoms: Inhalation may provoke the following symptoms:,



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		Respiratory disorder	
Acute	dermal toxicity	: Acute toxicity estimate: > 5.00 Method: Calculation method	00 mg/kg
		Symptoms: Redness, Local ir	ritation
<u>Comp</u>	onents:		
butan	e:		
Acute	inhalation toxicity	: LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas	
zinc p	owder — zinc dust	(stabilised):	
Acute	oral toxicity	 LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline GLP: yes Assessment: The substance of toxicity 	
Acute	inhalation toxicity	 LC50 (Rat): > 5,41 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline GLP: yes Assessment: The substance of inhalation toxicity 	
reaction	on mass of ethylbe	nzene and xylene:	
	oral toxicity	: LD50 (Rat): 3.523 - 4.000 mg	/kg
Acute	inhalation toxicity	: Assessment: The component short term inhalation.	/mixture is moderately toxic aft
Acute	dermal toxicity	: Assessment: The component single contact with skin.	/mixture is moderately toxic after

2-methoxy-1-methylethyl acetate:

Acute oral toxicity	:	LD50 (Rat): 6.190 mg/kg
		Method: OECD Test Guideline 401



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			GLP: yes	
Acut	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	
	utane:			
Acut	e inhalation toxicity	:	LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas	
Hydı	rocarbons, C11-C12,	isoalk	anes, < 2% aromatics:	
Acute	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	
n-bu	tyl acetate:			
Acute	e oral toxicity	:	LD50 (Rat): 10.768 mg/kg	
Acut	e 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 mixt inhalation toxicity	ure has no acute
Acute	e dermal toxicity	:	LD50 (Rabbit): > 17.600 mg/kg	
acet e Acute	one: e oral toxicity	:	LD50 Oral (Rat): 5.800 mg/kg	



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Skin	corrosion/irritation		
<u>Prod</u>	uct.		
Rema		: Irritating to skin.	
Nema	1185	. Initating to skin.	
Com	oonents:		
zinc p	oowder — zinc dus	t (stabilised):	
Speci		: Rabbit	
	ssment	: No skin irritation	
Resul	t	: No skin irritation	
react	ion mass of ethylbe	enzene and xylene:	
	ssment	: Irritating to skin.	
Resul		: Irritating to skin.	
-		J. J	
	thoxy-1-methylethy	l acetate:	
Speci		: Rabbit	
	ssment	: No skin irritation	
Metho		: OECD Test Guideline 404	
Resul GLP	t	: No skin irritation : yes	
01		.)	
n-but	yl acetate:		
Speci	es	: Rabbit	
Asses	ssment	: No skin irritation	
Metho		: OECD Test Guideline 404	
Resul	t	: Repeated exposure may cause	e skin dryness or cracking.
Serio	us eye damage/eye	irritation	
<u>Produ</u>	uct:		
Rema	arks	: Irritating to eyes.	
<u>Com</u>	oonents:		
zinc p	oowder — zinc dus	t (stabilised):	
Speci		: Rabbit	
Resul		: No eye irritation	
Expos	sure time	: 24 h	
	ssment	: No eye irritation	
Metho	bd	: OECD Test Guideline 405	
GLP		: yes	
		40.400	a brand of



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reaction mass of ethylbenzene and xylene:			
Result		Irritating to eyes.	
Assessment	:	Irritating to eyes.	

2-methoxy-1-methylethyl acetate:

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes

n-butyl acetate:

Species	Rabbit
Result	No eye irritation
Assessment	No eye irritation
Method	OECD Test Guideline 405
GLP	yes

acetone:

Species	:	Rabbit
Result	:	Eye irritation

Respiratory or skin sensitisation

Product:

Remarks

: This information is not available.

Components:

zinc powder — zinc dust (stabilised):

Species	:	Guinea pig
Assessment	:	Did not cause sensitisation on laboratory animals.
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitisation on laboratory animals.
GLP	:	yes

reaction mass of ethylbenzene and xylene:

Assessment	:	Did not cause sensitisation on laboratory animals.
Result	:	Did not cause sensitisation on laboratory animals.



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2-methoxy-1-methyleth	yl aceta	te:
Test Type	:	Maximisation Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.

Germ cell mutagenicity

Product:

n-butyl acetate:

Genotoxicity in vitro	:	Remarks: No data available
Genotoxicity in vivo	:	Remarks: No data available

Components:

zinc powder — zinc dust (stabilised):

Germ cell mutagenicity -	:	Tests on bacterial or mammalian cell cultures did not show
Assessment		mutagenic effects.

2-methoxy-1-methylethyl acetate:

Germ cell mutagenicity - Assessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects.

n-butyl acetate:

Genotoxicity in vitro	:	Test Type: Ames test
-		Test system: Salmonella typhimurium
		Method: OECD Test Guideline 471
		Result: negative

Test Type: Chromosome aberration test in vitro



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			Test system: Chinese hamster cell Method: OECD Test Guideline 473 Result: negative	
Geno	toxicity in vivo	:	Species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative	ŀ
	cell mutagenicity - ssment	:	Tests on bacterial or mammalian c mutagenic effects., Animal testing effects.	
Carci	nogenicity			
<u>Produ</u>				
Rema	arks	:	No data available	
<u>Com</u>	oonents:			
-	oowder — zinc dust	-		
	nogenicity - ssment	:	No evidence of carcinogenicity in a	animal studies.
2-met	thoxy-1-methylethy	aceta	te:	
	nogenicity - ssment	:	Not classifiable as a human carcine	ogen.
n-but	yl acetate:			
	nogenicity - ssment	:	Not classifiable as a human carcine	ogen.
Repro	oductive toxicity			
Produ				
Effect	s on fertility	:	Remarks: No data available	
	s on foetal opment	:	Remarks: No data available	
<u>Comp</u>	oonents:			
-	oowder — zinc dust	(stabi	•	
Repro	oductive toxicity -	:	- Fertility -	



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sion 0	Revision Date: 06.12.2022	Date of last issue: 19.04.2021 Date of first issue: 08.04.2014	Print Date: 06.12.2022
Assessment		No toxicity to reproduction - Teratogenicity -	
		No effects on or via lactation	
react	ion mass of ethylbe	enzene and xylene:	
-	oductive toxicity -	: - Fertility -	
Asse	ssment	Animal testing did not show any	effects on fertility.
2-me	thoxy-1-methylethy	l acetate:	
	oductive toxicity -	: - Fertility -	
Asse	ssment	No toxicity to reproduction - Teratogenicity -	
		No toxicity to reproduction	
n-but	tyl acetate:		
Effec	ts on fertility	: Test Type: Two-generation stud Species: Rat Application Route: inhalation (va General Toxicity - Parent: NOAE General Toxicity F1: NOAEC: 75 General Toxicity F2: NOAEC: 75 Method: OECD Test Guideline 4 Result: Embryotoxic effects and offspring were detected.	apour) EC: 750 mg/l 50 mg/l 50 mg/l 16
	oductive toxicity -	: - Fertility -	
Asse	Assessment	No evidence of adverse effects of or on development, based on an - Teratogenicity -	
	No toxicity to reproduction		
STO	Γ - single exposure		
Com	ponents:		
react	ion mass of ethylbe	enzene and xylene:	
	sure routes	: Inhalation	
-	et Organs ssment	 Respiratory system The substance or mixture is class toxicant, single exposure, categor irritation. 	



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2-methoxy-1-methylethyl a	etate:
Exposure routes Target Organs Assessment	 Ingestion Central nervous system The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
n-butyl acetate: Exposure routes Target Organs Assessment	 Inhalation Central nervous system The substance or mixture is classified as specific target organ
Assessment	toxicant, single exposure, category 3 with narcotic effects.
acetone:	
Exposure routes Assessment	: Inhalation : May cause drowsiness or dizziness.
STOT - repeated exposure	
Components:	
reaction mass of ethylben	ne and xylene:
Exposure routes Target Organs Assessment	 Inhalation Auditory system The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
2-methoxy-1-methylethyl a	etate:
Assessment	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
n-butyl acetate:	
Assessment	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	
Repeated dose toxicity Product:	



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Components:

n-butyl acetate:

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

Aspiration toxicity

<u>Product:</u> This information is not available.

Components:

zinc powder — zinc dust (stabilised): No aspiration toxicity classification

reaction mass of ethylbenzene and xylene:

May be fatal if swallowed and enters airways.

2-methoxy-1-methylethyl acetate:

No aspiration toxicity classification

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

May be fatal if swallowed and enters airways.

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. Possible risk of irreversible effects.



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GICAL INFORMATIO	N		
-			
\+ -			
/6,			
v to fish	:	Remarks: May cause long-term ac environment.	dverse effects in the aqua
to daphnia and other invertebrates	:	Remarks: No data available	
v to algae/aquatic	:	Remarks: No data available	
to microorganisms	:	Remarks: No data available	
onents:			
owder — zinc dust (s	tabi	lised):	
v to fish	:	LC50 (Oncorhynchus kisutch (coh Exposure time: 96 h Test Type: static test	o salmon)): 0,727 mg/l
v to daphnia and other invertebrates	:	Exposure time: 48 h Test Type: static test	
or (Acute aquatic	:	1	
or (Chronic aquatic	:	1	
icology Assessment			
equatic toxicity	:	Very toxic to aquatic life.	
aquatic toxicity	:	Very toxic to aquatic life with long	lasting effects.
	invertebrates to algae/aquatic to microorganisms onents: owder — zinc dust (so to fish to daphnia and other invertebrates or (Acute aquatic or (Chronic aquatic dicology Assessment aquatic toxicity c aquatic toxicity	<pre>v to algae/aquatic : : : : : : : : : : : : : : : : : : :</pre>	invertebrates Remarks: No data available v to algae/aquatic : r to algae/aquatic : r to microorganisms : v to microorganisms : r to microorganisms : enents: . owder — zinc dust (stabilised): v to fish : LC50 (Oncorhynchus kisutch (coh Exposure time: 96 h Test Type: static test v to daphnia and other : invertebrates : et o daphnia and other : EC50 (Daphnia magna (Water fleat Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or (Acute aquatic : or (Chronic aquatic : icology Assessment

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l



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Vers 1.10		Revision Date: 06.12.2022		e of last issue: 19.04.2021 e of first issue: 08.04.2014	Print Date: 06.12.2022					
				Exposure time: 96 h Method: OECD Test Guideline 203						
		noxy-1-methylethyl a	ceta							
	Toxicit	y to fish	:	LC50 (Oncorhynchus mykiss (rainbow tr mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203	out)): > 100 - 180					
		y to daphnia and other c invertebrates	r :	EC50 (Daphnia magna (Water flea)): 37 Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes	3 mg/l					
	Toxicit plants	y to algae/aquatic	:	NOEC (Pseudokirchneriella subcapitata 1.000 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes	(green algae)): >=					
	aquatio	y to daphnia and other c invertebrates ic toxicity)	r:	EC50 (Daphnia magna (Water flea)): > 7 Exposure time: 21 d Test Type: Reproduction Test Method: OECD Test Guideline 211	l 00 mg/l					
	Toxicit	y to microorganisms	:	EC10 (activated sludge): > 1.000 mg/l Exposure time: 0,5 h Test Type: static test Method: OECD Test Guideline 209						
	-	rl acetate: y to fish	:	LC50 (Pimephales promelas (fathead m Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203	innow)): 18 mg/l					
		y to daphnia and other c invertebrates	r:	EC50 (Daphnia (water flea)): 44 mg/l Exposure time: 48 h Test Type: static test						



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ersion 10	Revision Date: 06.12.2022		of last issue: of first issue:		Print Date: 06.12.2022
Toxicit <u>y</u> plants	y to algae/aquatic	:	EC50 (Desm Exposure tim Test Type: st	e: 72 h	(green algae)): 397 mg/l
aquatio	y to daphnia and other invertebrates ic toxicity)	:	Exposure tim	nia magna (Water flea e: 21 d eproduction Test)): 23 mg/l
Toxicity	y to microorganisms	:	Exposure tim	nymena pyriformis): 35 e: 40 h rowth inhibition	6 mg/l
Persis	tence and degradabi	lity			
Produ	ct:				
	radability	:	Remarks: No	data available	
Physice remova	o-chemical ability	:	Remarks: No	data available	
<u>Comp</u>	onents:				
reactio	on mass of ethylbenz	ene	and xylene:		
Biodeg	radability	:	Result: rapidl Biodegradatio Exposure tim		
2-meth	noxy-1-methylethyl a	cetat	e:		
Biodeg	radability	:	Result: rapidl Biodegradatio Exposure tim		-
Hydro	carbons, C11-C12, is	oalka	anes, < 2% ar	omatics:	
	radability	:		eadily biodegradable.	
-	l acetate:				
Biodeg	radability	:	Primary biode	egradation	
			22 / 3	33	a brand of



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	00.12.2022	Dui	Result: rapidly biodegradable Biodegradation: 83 % Exposure time: 28 d Method: OECD Test Guideline 30 ⁴	
aceto Biode	o ne: gradability	:	Result: rapidly biodegradable	
Bioad	cumulative potentia	al		
<mark>Produ</mark> Bioac	u <u>ct:</u> cumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substanc persistent and very bioaccumulating	d toxic (PBT). e considered to be very
Com	oonents:			
butar	ne:			
	ion coefficient: n- ol/water	:	log Pow: 2,89 Method: OECD Test Guideline 107	7
react	ion mass of ethylbe	nzene	and xylene:	
	on coefficient: n- ol/water	:	log Pow: 3,12 - 3,2	
	ane: ion coefficient: n- ol/water	:	log Pow: 2,36	
2-me	thoxy-1-methylethyl	aceta	e:	
	cumulation	:	Bioconcentration factor (BCF): 3,1	6
	ion coefficient: n- ol/water	:	log Pow: 0,36 (25 °C) Method: OECD Test Guideline 107 GLP: yes	7
Partiti	itane: ion coefficient: n- ol/water	:	log Pow: 2,88 Method: OECD Test Guideline 107	7



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rsion 0	Revision Date: 06.12.2022		e of last issue: 19.04.2021 e of first issue: 08.04.2014	Print Date: 06.12.2022
Hydro	ocarbons, C11-C12, is	oalka	anes, < 2% aromatics:	
Bioac	cumulation	:	Remarks: No data available	
	on coefficient: n- ol/water	:	Remarks: No data available	
n-but	yl acetate:			
	on coefficient: n-	:	log Pow: 2,3 (25 °C)	
octan	ol/water		pH: 7 Method: OECD Test Guideline 117 GLP: yes	
aceto	ne:			
Bioac	cumulation	:	Remarks: Does not bioaccumulate.	
	on coefficient: n- ol/water	:	log Pow: 0,2	
Mobil	ity in soil			
<u>Produ</u>	<u>uct:</u>			
Mobili	ty	:	Remarks: No data available	
	oution among onmental compartments	:	Remarks: No data available	
Other	adverse effects			
<u>Produ</u>	<u>uct:</u>			
Additi inform	onal ecological nation	:	Very toxic to aquatic organisms, ma effects in the aquatic environment.	ay cause long-term adver
<u>Comp</u>	oonents:			
	hoxy-1-methylethyl a			
	ts of PBT and vPvB sment	:	Non-classified PBT substance Non-	-classified vPvB substand
	yl acetate:			
Docul	ts of PBT and vPvB	•	Non-classified PBT substance Non-	classified vPvB substance







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Hygienic standards:

(Allowable concentration in air, water, including fishery waters, soil)

Components	Air	Water	Soil	Data Source
butane	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 200 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 1 List 5
zinc powder — zinc dust (stabilised)	No data available	Maximum Permissible Concentration: 0,01 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3 Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3 Maximum Allowable Concentration: 5 mg/l Limiting health hazard indicator: sanitary- toxicological Hazard class: Class 3 - moderately dangerous	ODC value: 55 mg/kg ODC value: 110 mg/kg ODC value: 220 mg/kg Approximately permissible concentration considering the background: 55 mg/kg Hazard class: Class 1 - extremely dangerous Approximately permissible concentration considering the background: 110 mg/kg Hazard class: Class 1 - extremely dangerous Approximately permissible concentration considering the background: 110 mg/kg Hazard class: Class 1 - extremely dangerous Approximately permissible concentration considering the background: 120 mg/kg	List 4 List 5 List 6 List 7



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react	ion mass of benzene and	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,2 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class	Maximum Allowable Concentration: 0,05 mg/l Limiting health hazard indicator: organoleptic; changes the smell of water Hazard class: Class 3 - moderately	Hazard class: Class 1 - extremely dangerous Maximum allowable concentration considering the background: 23 mg/kg Limiting health hazard indicator: Translocation Hazard class: Class 1 - extremely dangerous Maximum allowable concentration considering the background: 0,3 mg/kg Limiting health hazard indicator: Translocation	List 1 List 4 List 7
		3 - moderately dangerous Concentration that provides permissible (acceptable) levels of risk for chronic (at least 1 year) exposure - average daily: 0,1 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous	dangerous		
propa	ane	No data available	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter	No data available	List 5



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		Limiting health hazard indicator: toxic Hazard class: 3		
2-methoxy-1- methylethyl acetate	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,5 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	No data available	No data available	List 1
isobutane	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 15 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 1 List 5
Hydrocarbons, C11- C12, isoalkanes, < 2% aromatics	No data available	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 5
n-butyl acetate	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,1 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Maximum Permissible Concentration: 0,3 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary and toxicological effects Hazard class: 4 Maximum Allowable	No data available	List 1 List 4 List 5



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			Concentration: 0,1 mg/l Limiting health hazard indicator: general sanitary Hazard class: Class 4 - low hazard		
aceto	ne	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,35 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3 Maximum Allowable Concentration: 2,2 mg/l Limiting health hazard indicator: general sanitary Hazard class: Class 3 - moderately dangerous	No data available	List 1 List 4 List 5

For explanation of abbreviations see section 16.

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.
	The following Waste Codes are only suggestions:
Waste Code :	unused product, packagings not completely emptied 16 05 04*, gases in pressure containers (including halons) containing hazardous substances



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14. TRANSPORT INFORMATION

ADR UN number Proper shipping name Class Packing group Labels Tunnel restriction code Environmentally hazardous	:	UN 1950 AEROSOLS 2 Not assigned by regulation 2.1 (D) yes
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	-	UN 1950 Aerosols, flammable 2.1 Not assigned by regulation Flammable Gas 203
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant		UN 1950 AEROSOLS (zinc powder - zinc dust (stabilized)) 2.1 Not assigned by regulation 2.1 F-D, S-U yes

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

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

National regulatory information

Federal Law of 21.07.1997 No. 116-FZ (amended on 11.06.2021) "On industrial safety of hazardous production facilities".

Federal Law of 24.06.1998 No. 89-FZ (amended on 02.07.2021) "On production and consumption waste".

Federal Law of 30.03.1999 No. 52-FZ (amended on 02.07.2021) "On the Sanitary and Epidemiological Well-Being of the Population" (amended and supplemented, entered into force on 31.10.2021).

Federal Law of 04.05.1999 No. 96-FZ "On the protection of atmospheric air" (as amended on



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December 8, 2020).

Federal Law of 27.12.2002 No. 184-FZ (amended on 02.07.2021) "On Technical Regulation" (amended and supplemented, entered into force on 01.09.2021). Federal Law of 10.01.2002 No. 7-FZ (amended on 02.07.2021) "On environmental protection". Federal Law of 22.07.2008 No. 123-FZ "Technical Regulations on Fire Safety Requirements" TECHNICAL REGULATIONS OF THE CUSTOMS UNION TR CU 030/2012 On requirements for lubricants, oils and special fluids (amended on 03.03.2017).

International Regulations

Montreal Protocol	:	Not applicable
Rotterdam Convention (Prior Informed Consent)	:	Not applicable
Stockholm Convention (Persistent Organic Pollutants)	:	Not applicable

16. OTHER INFORMATION

List of data sources used in the preparation of the Safety Data Sheet

GOST 30333-2007. Interstate standard. Safety data sheet for chemical products. Primary requirements.

GOST 12.1.004-91 System of labor safety standards (SSBT). Fire safety. General requirements. GOST 12.1.007-76 Occupational safety standards system. Noxious substances. Classification and general safety requirements

GOST 12.1.044-89 SSBT. Fire and explosion hazard of substances and materials. Nomenclature of indicators and methods for their determination.

GOST 12.4.021 System of labor safety standards (SSBT). Ventilation systems. General requirements.

GOST 12.4.137-2001 Special footwear with leather uppers for protection against oil, oil products, acids, alkalis, non-toxic and explosive dust. Technical conditions.

GOST 12.4.252-2013 System of labor safety standards (SSBT). Means of individual protection of hands. Gloves. General technical requirements. Test methods.

GOST 14192-96. Interstate standard. Cargo marking. Minsk, 1998.

GOST 19433-88 Dangerous goods. Classification and labeling.

GOST 31340-2013. Interstate standard. Precautionary labeling of chemical products. General requirements.

GOST 32419-2013 Classification of the hazard of chemical products. General requirements.

GOST 32421-2013 Classification of chemical products, the hazard of which is due to physical and chemical properties. Test methods for explosive chemical products.

GOST 32423-2013 Hazard classification of mixed chemical products by their effects on the body. GOST 32424-2013 Classification of the hazard of chemical products by their impact on the environment. Basic provisions.

GOST 32425-2013 Hazard classification of mixed chemical products in terms of environmental impact.

GOST R 53264-2019 Fire fighting equipment. Special protective clothing for firefighters. General technical requirements. Test methods.

GOST R 53265-2019 Fire fighting equipment. Personal protective equipment for the feet of the firefighter. General technical requirements. Test methods.



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GOST R 53268-2009 Fire fighting equipment. Fire rescue belts. General technical requirements. Test methods.

GOST R 53269-2019 Fire fighting equipment. Firefighters helmets. General technical requirements. Test methods.

SanPiN 1.2.2353-08 "Carcinogenic factors and basic requirements for the prevention of carcinogenic hazard".

SanPiN 1.2.3685-21 "Hygienic standards and requirements for ensuring the safety and (or) harmlessness to humans of environmental factors" dated 28.01.2021.

SanPiN 2.1.3684-21 "Sanitary and epidemiological requirements for the maintenance of the territories of urban and rural settlements, for water bodies, drinking water and drinking water supply, atmospheric air, soils, living quarters, the operation of industrial, public premises, the organization and implementation of sanitary and anti-epidemic (preventive) measures". SanPiN 2.2.0.555-96. 2.2. Labor hygiene. Hygienic requirements for working conditions for women. Sanitary rules and regulations.

Carriage of dangerous goods, International maritime dangerous goods (IMDG) code. Water quality standards for fishery water bodies, including standards for maximum permissible concentrations of harmful substances in the waters of fishery water bodies (approved by order of the Ministry of Agriculture of Russia dated December 13, 2016 No. 552).

Regulations for the carriage of dangerous goods (Appendix 1 and 2) to the Agreement on International Goods Transport by Rail (SMGS), 2009.

Agreement on International Goods Transport by Rail (SMGS).

UN Recommendations on the Transport of Dangerous Goods. Typical rules. Twenty-second revised edition. United Nations, New York and Geneva, 2021.

Montreal Protocol (Ozone Depleting Substances)

Stockholm Convention (Persistent Organic Pollutants)

Full text of other abbreviations

Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Irrit.	: : : : : : : : : : : : : : : : : : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Eye irritation
Flam. Gas Flam. Liq.	÷	Flammable gases Flammable liquids
Press. Gas Skin Irrit.	:	Gases under pressure Skin irritation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2019/1831/EU	:	Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
RU OEL	:	SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table 2.17 Maximum permissible concentrations (MPC) in the air of the working area
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2019/1831/EU / TWA	:	Limit Value - eight hours
2019/1831/EU / STEL	:	
RU OEL / MPC-STEL RU OEL / MPC-TWA	:	Maximum Permissible Concentration - Short Term Exposure Maximum Permissible Concentration - Time Weighted Average
List 1	:	SanPiN 1.2.3685-21 Table 1.1, Table 1.10, & Table 1.11



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		Maximum permissible concentration (M and rural settlements	IPC) in the air of urban
List 4		: SanPiN 1.2.3685-21 Table 3.13, Table Table 3.17 Maximum permissible conce chemicals in the water of drinking syste including hot, and non-centralized wate underground and surface water bodies and cultural and domestic water use, w pools, water parks	entrations (MPC) of ems of centralized, er supply, water of of domestic drinking
List 5		 Order of the Russian Federal Fisheries maximum permissible concentrations o fishery water bodies" 	
List 6		: GN 2.1.7.2511-09 Guiding permissible chemical substances in soil	concentration (GPC) of
List 7		: SanPiN 1.2.3685-21 Table 4.1, Table 4 4.8, Table 4.9 & Table 4.10 Maximum a (MPC) and approximate allowable cond chemicals in the soil	allowable concentration

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate; 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; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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