

NOROX[®]CHM-50

Version	Revision Date:	SDS Number:	Date of last issue: 09.11.2023
4.0	06.03.2025	60000000077	Date of first issue: 21.06.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	NOROX [®] CHM-50
Unique Formula Identifier (UFI)	:	XMY8-K0JD-R009-C3PJ

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	: polymerisation initiators
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

Company	:	United Initiators GmbH DrGustav-Adolph-Str. 3 82049 Pullach
Telephone	:	+49 / 89 / 74422 – 0
E-mail address of person responsible for the SDS	:	contact@united-in.com

1.4 Emergency telephone number

+44 1235 239670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Organic peroxides, Type F	H242: Heating may cause a fire.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 3	H331: Toxic if inhaled.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Carcinogenicity, Category 1B	H350: May cause cancer.

Revision Date:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SDS Number:



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NOROX[®]CHM-50

Version

 Specific target organ toxicity - single exposure, Category 3, Respiratory system Specific target organ toxicity - repeated exposure, Category 2 Long-term (chronic) aquatic hazard, Category 2 H313: May cause damage to organs through protonged or repeated exposure. H411: Toxic to aquatic life with long lasting effect egory 2 2 Label elements Labeling (REGULATION (EC) No 1272/2009) Hazard pictograms H226 Flarmable liquid and vapour. H242 Heating may cause a fire. H335 May cause damage to organs through protonged or repeated exposure. May cause a fire. H336 May cause a fire. H337 May cause a fire. H336 May cause a fire. H335 May cause a fire. H336 May cause accret. H337 May cause admage to organs through protonged or repeated exposure. H411 Toxic fi inhaled. H335 May cause damage to organs through protonged or prepated exposure. H411 Toxic to aquatic life with long lasting effects. P201 Obtain special instructions before use. P203 Neep away from heat, hot surfaces, sparks, ope filmes and other ignition sources. No smoking. P234 Keep only in original packaging. P230 Wear protection face protection. P230 Wear protection gives / protection exits or wapours. P234 Keep only in orginal packaging. P230 P234 Keep only in orginal packaging. P230 P334 P351 + P333 IF ON SKIN (or hair): Take off immed ately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF IN HALED: Remove person to free air and keep comfortable for breatting. Immediately all contaminated clothing. Rinse skin with water for several minutes. Remove contact 	Version 4.0	Revision Date: 06.03.2025	SDS Numb 600000000		
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2/33			P305 +	P351 + P338 + P310 IF IN EYES: Rinse cautic	
				2/33	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	enses, if present and easy to do. Continue rins- ng. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/
a	ttention.
P370 + P378	In case of fire: Use water spray, alcohol-
re	esistant foam, dry chemical or carbon dioxide to
e	xtinguish.
P391 C	collect spillage.
Chargena	

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Hazardous components which must be listed on the label:

Cumene hydroperoxide (CAS-No. 80-15-9) Cumene (CAS-No. 98-82-8)

Additional Labelling

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Organic Peroxide Liquid

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
methyl acetoacetate	105-45-3	Eye Irrit. 2; H319	>= 50 - < 55
	203-299-8		
	607-137-00-0		
	01-2119451095-43		

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6000000077



Eye Irrit. 2; H319

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Cumene hydroperoxide	80-15-9 201-254-7 617-002-00-8 01-2119475796-19	Flam. Liq. 3; H226 Org. Perox. E; H242 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT RE 2; H373	>= 40 - <
		Aquatic Chronic 2; H411 specific concentration limit Skin Corr. 1B; H314 >= 10 % Skin Irrit. 2; H315 3 - < 10 % Eye Dam. 1; H318 3 - < 10 % Eye Irrit. 2; H319 1 - < 3 % STOT SE 3; H335 < 10 %	
		Acute toxicity esti- mate Acute oral toxicity: 382 mg/kg Acute dermal toxicity:	
Cumene	98-82-8 202-704-5 601-024-00-X 01-2119473983-24	1,200 mg/kg Flam. Liq. 3; H226 Carc. 1B; H350 STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 5 - < 7
Benzenemethanol, alpha,alpha- dimethyl-	617-94-7 210-539-5 01-2119965145-35	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity estimate	>= 1 - < :
		Acute oral toxicity: 500 mg/kg	

202-708-7

606-042-00-1

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		01-211953316	5	
			mate Acute oral toxicity: 500.0 mg/kg	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice :	 Take off contaminated clothing and shoes immediately. Call a physician immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.
Protection of first-aiders :	First Aid responders should pay attention to self-protection and use the recommended protective clothing
If inhaled :	Administer oxygen if breathing is difficult or cyanosis is ob- served. Call a physician immediately. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Contact a poison control center. Respiratory tract burning possible if aerosols are inhaled. Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear.
In case of skin contact :	If symptoms persist, call a physician. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul- ty. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact :	Small amounts splashed into eyes can cause irreversible tis-

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		of water and seel Continue rinsing Remove contact Protect unharmed Keep eye wide op	ntact with eyes, rinse immediately with plenty c medical advice. eyes during transport to hospital. lenses. d eye.
lf s	wallowed	Keep respiratory	oughly with water.
4.2 Mos	at important symptoms ar	nd effects, both acute	e and delayed
Ris	ks	: Harmful if swallov Causes serious e Toxic if inhaled. May cause respir May cause cance May cause dama exposure. Causes severe b	eye damage. atory irritation. er. ge to organs through prolonged or repeated
	cation of any immediate n eatment		d special treatment needed ically and supportively.
SECTIO	ON 5: Firefighting meas	sures	
5.1 Exti	nguishing media		
Sui	itable extinguishing media	: Water spray jet Alcohol-resistant Carbon dioxide (0 Dry chemical	
	suitable extinguishing dia	: High volume wate	er jet
5.2 Spe	cial hazards arising from	the substance or mi	xture
Spe	ecific hazards during fire- nting	: Risk of explosion Possible emission lead to a dangero Avoid confinemen Contact with inco tures exceeding S	if heated under confinement. n of gaseous decomposition products may ous pressure build-up.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





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			Do not allow run-o courses. Vapours may forn The product will fl water.	s violently. le over considerable distance. off from fire fighting to enter drains or water n explosive mixtures with air. oat on water and can be reignited on surface iners exposed to fire with water spray.
5.3 A	dvice for firefighters			
	Special protective equipment or firefighters	:		ed breathing apparatus for firefighting if nec- onal protective equipment.
	Specific extinguishing meth- ods	:	fire. Remove undamag so.	I water stream as it may scatter and spread ged containers from fire area if it is safe to do o cool unopened containers.
F	Further information	:	cumstances and t Use a water spray Collect contamina must not be disch Fire residues and	measures that are appropriate to local cir- he surrounding environment. to cool fully closed containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Follow safe handling advice and personal protective equipment recommendations. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal
	Treat recovered material as described in the section "Disposal considerations".

6.2 Environmental precautions

Environmental precautions	:	Prevent product from entering drains.
		Prevent further leakage or spillage if safe to do so.
		If the product contaminates rivers and lakes or drains inform
		respective authorities.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Contact with incompatible substances can cause decomposi- tion at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapours/mists with a water spray jet. To clean the floor and all objects contaminated by this materi- al, use plenty of water. Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable.
-------------------------	---	--

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on safe handling	:	Open drum carefully as content may be under pressure. Protect from contamination. Do not swallow. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid formation of aerosol. Take precautionary measures against static discharges. Never return any product to the container from which it was originally removed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the ap- plication area. Wash thoroughly after handling. For personal protection see section 8.
Advice on protection against fire and explosion	:	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Keep away from combustible material. Do

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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	Hygien	e measures	:	Avoid contact with food and drink. WI	ted flame or any incandescent material. skin, eyes and clothing. Keep away from nen using do not eat or drink. When using sh hands before breaks and immediately product.
7.2 (Conditio	ons for safe storage, i	incl	uding any incomp	atibilities
	Require	ements for storage nd containers	:	Store in original co cool, well-ventilate may result in dang ers may rupture. F precautions. Store regulations. Avoid composition. Elect comply with the te	ontainer. Keep containers tightly closed in a ed place. Store in cool place. Contamination gerous pressure increases - closed contain- Prevent unauthorized access. Observe label e in accordance with the particular national impurities (e.g. rust, dust, ash), risk of de- trical installations / working materials must chnological safety standards. Containers must be carefully resealed and kept upright
	Advice	on common storage	:		ombustible materials. trong acids, bases, heavy metal salts and ostances.
	Recom	mended storage tem- e	:	< 30 °C	
	Further age sta	information on stor- bility	:	Stable under reco	mmended storage conditions.
7.3 9	Specific	end use(s)			
_	Specific		:	For further informa sheet.	ation, refer to the product technical data

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
Cumene	98-82-8	TWA	20 ppm 100 mg/m3	2000/39/EC			
		Further information: Identifies the possibility of significant uptake through the skin, Indicative					
	STEL 50 ppm 2000/39/E						
	Further information: Identifies the possibility of significant uptake through the skin, Indicative						

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		TWA	10 ppm 50 mg/m3	2019/1831/E U		
		Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin., In- dicative				
		STEL	50 ppm 250 mg/m3	2019/1831/E U		
		Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin., In-				
	OELV - 8 hrs 10 ppm IE OEL (TWA) 50 mg/m3 10 mg/m3					
			which have the capacity to pe ith it, and be absorbed into the			
	OELV - 15 min 50 ppm IE OEL (STEL) 250 mg/m3 110 mg/m3 110 mg/m3					
		Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body				
acetophenone	98-86-2	OELV - 8 hrs (TWA)	10 ppm 49 mg/m3	IE OEL		

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value			
methyl acetoacetate	Workers	Inhalation	Long-term exposure	29.17 mg/m3			
	Workers	Skin contact	Long-term exposure	8.33 mg/kg			
Cumene hydroperox- ide	Workers	Inhalation	Long-term systemic effects	6 mg/m3			
Cumene	Workers	Inhalation	Long-term systemic effects	100 mg/m3			
	Workers	Inhalation	Acute local effects	250 mg/m3			
	Workers	Skin contact	Long-term systemic effects	15.4 mg/kg bw/day			
acetophenone	Workers	Inhalation	Long-term systemic effects	22 mg/m3			
	Workers	Inhalation	Acute local effects				
	Remarks:No hazard identified						
	Workers	Skin contact	Long-term systemic effects	6.3 mg/kg bw/day			
	Consumers	Inhalation	Long-term systemic effects	5.4 mg/m3			
	Consumers	Skin contact	Long-term systemic effects	3.1 mg/kg bw/day			
	Consumers	Ingestion	Long-term systemic effects	3.1 mg/kg bw/day			
	Consumers	Ingestion	Acute systemic ef- fects	6.25 mg/kg bw/day			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name

Environmental Compartment

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methyl acetoacetate	Fresh water	0.1 mg/l
	Fresh water sediment	0.08 mg/kg
	Marine water	0.01 mg/l
		0.008 mg/kg
	Sewage treatment plant	50 mg/l
	Soil	0.018 mg/kg
Cumene hydroperoxide	Fresh water	0.0031 mg/l
	Marine water	0.00031 mg/l
	Sewage treatment plant	0.39 mg/l
	Fresh water sediment	0.023 mg/kg dry
		weight (d.w.)
	Marine sediment	0.002 mg/kg dry
		weight (d.w.)
	Soil	0.0029 mg/kg dry
		weight (d.w.)
Cumene	Fresh water	0.035 mg/l
	Intermittent use/release	0.012 mg/l
	Marine water	0.004 mg/l
	Fresh water sediment	3.22 mg/kg
	Marine sediment	0.322 mg/kg
	Sewage treatment plant	200 mg/l
	Soil	0.624 mg/kg

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Personal protective equipment

Eye	e/face protection :	Ensure that eyewash stations and safety showers are close to the workstation location. Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face pro- tection if there is a splash hazard. Equipment should conform to EN 166
	Break through time :	Nitrile rubber < 10 min 0.40 mm
	Material : Break through time : Glove thickness :	butyl-rubber 480 min 0.70 mm

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Di	irective	: Equipment sh	ould conform to EN 374		
Remarks		standard value material has to tive glove. Ch depending on ous substance plications, we cals of the afo	The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protec- tive glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazard- ous substance and specific to place of work. For special ap- plications, we recommend clarifying the resistance to chemi- cals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.		
Skin and body protection		resistance dat potential. Additional boo task being per posable suits) Wear as appro	riate protective clothing based on chemical a and an assessment of the local exposure by garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. opriate: nt antistatic protective clothing.		
Resp	iratory protection	: In the case of approved filter	dust or aerosol formation use respirator with an		
		Respirator wit 141)	h combination filter for vapour/particulate (EN		
Fi	lter type	: ABEK-filter			
Protective measures			otective equipment must be selected according tration and amount of the dangerous substance workplace.		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	light yellow
Odour	:	aromatic
Odour Threshold	:	not determined

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	Melting	point/ range	:	not determined	
	Boiling	point/boiling range	:	Not applicable Decomposition	
	Flammability		:	Not applicable	
		explosion limit / Upper bility limit	:	14.5 %(V) (for a component	of this mixture)
		explosion limit / Lower bility limit	:	1.4 %(V) (for a component	of this mixture)
	Flash p	oint	:	60 °C Method: closed c	up
	Auto-ig	nition temperature	:	not determined	
		celerating decomposi- perature (SADT)	:	temperature at w	erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	рН		:	Not applicable no soluble (in water)	ot determined substance/mixture is non-
	Viscosi [.] Visc	ty osity, dynamic	:	not determined	
	Visc	osity, kinematic	:	not determined	
	Solubili Wat	ty(ies) er solubility	:	slightly soluble	
	Partition octanol	n coefficient: n- /water	:	No data available	
	Vapour	pressure	:	not determined	
	Relative	e density	:	not determined	

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D	ensity		:	ca. 1.0 g/cm3	
R	elative vapour	density	:	No data available	9
9.2 Ot	her informatio	n			
	xidizing proper		:	The substance o Organic peroxide	r mixture is not classified as oxidizing.
F	lammability (liq	uids)	:	Flammable liquid	and vapour., Organic peroxide
S	elf-ignition		:	The substance o	r mixture is not classified as pyrophoric.
S	elf-heating sub	stances	:	The substance o	r mixture is not classified as self heating.
w	ubstances and hich in contact mit flammable	with water,	:	The substance o contact with wate	r mixture does not emit flammable gases in er.
D	esensitised ex	plosives	:	Not applicable	
E	vaporation rate	9	:	No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions. Heating may cause a fire or explosion.

10.2 Chemical stability

Stable under recommended storage conditions. No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

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10.4 Conditions to avoid Conditions to avoid :	Protect from contamination. Contact with incompatible substances can cause decomposi- tion at or below SADT. Heat, flames and sparks.
	Avoid confinement.
10.5 Incompatible materials	

Materials to avoid	: Accelerators, strong acids and bases, heavy metals and
	heavy metal salts, reducing agents

10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed. Toxic if inhaled.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 882.38 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 7.32 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Components:		
methyl acetoacetate:		
Acute oral toxicity	:	LD50 (Rat, male): 2,580 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rabbit): > 49 mg/l Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: Information given is based on data obtained from

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			similar substance	s
			No mortality obse	
Acu	Acute dermal toxicity :		LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose.	
	mene hydroperoxide:			
Acı	ute oral toxicity	:	LD50 Oral (Rat): 3	382 mg/kg
Acı	ute inhalation toxicity	:	LC50: 1.370 mg/l Exposure time: 4 Test atmosphere: Assessment: The inhalation.	
Ас	ute dermal toxicity	:	LD50 (Rat): 1,200 Assessment: The single contact with	component/mixture is moderately toxic after
			Acute toxicity estine Method: Calculation	mate: 1,200 mg/kg on method
Cu	mene:			
Acı	ute oral toxicity	:	LD50 (Rat): 2,260 Method: OECD Te	
Acu	ute dermal toxicity	 LD50 (Rabbit): > 3,160 mg/kg Assessment: The substance or mixture has no acute d toxicity Remarks: No mortality observed at this dose. 		substance or mixture has no acute dermal
Be	nzenemethanol, alpha,al	oha	-dimethyl-:	
Acı	ute oral toxicity	:	Acute toxicity estin Assessment: The single ingestion. Remarks: Expert	component/mixture is moderately toxic after
Acu	ute inhalation toxicity	:	Remarks: No data	a available
Acu	ute dermal toxicity	:	toxicity	spert judgement substance or mixture has no acute dermal on available data, the classification criteria

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rsion	Revision Date: 06.03.2025	SDS Number: 600000000077	Date of last issue: 09.11.2023 Date of first issue: 21.06.2016
	phenone:		
Acute oral toxicity		Method: Expe Assessment: single ingestio	The component/mixture is moderately toxic after on. sed on harmonised classification in EU regulation
Acute dermal toxicity		: LD50 (Rat): 3 Method: OEC	,300 mg/kg D Test Guideline 402
_	corrosion/irritation		
Produ	ıct:		
Rema		: Extremely cor	rosive and destructive to tissue.
Comp	oonents:		
methy	/l acetoacetate:		
Speci	es	: Rabbit	
Method		: OECD Test G	Buideline 404
Result		: No skin irritati	on
Cume	ene hydroperoxide:		
Speci		: Rabbit	
Resul	t	: Causes burns).
Remarks		: Extremely cor	rosive and destructive to tissue.
Cume	ene:		
Speci		: Rabbit	
Metho		: OECD Test G	
Resul	t	: No skin irritati	on
Benze	enemethanol, alpha	alpha-dimethyl-:	
Speci		: Rabbit	
Resul	t	: Severe skin ir	ritation
aceto	phenone:		
Speci		: Rabbit	
Metho		: OECD Test G	
Resul	t	: No skin irritati	on
	rks		in irritation in susceptible persons.

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us eye damage/eye i	irritatio	n	
es serious eye damag	je.		
ict:			
rks	: 1	May cause irrev	versible eye damage.
onents:			
/l acetoacetate:			
	:	Rabbit	
ure time			
d	: (OECD Test Gui	deline 405
t	: 1	Irreversible effe	cts on the eye
	: :	yes	
ne hydroperoxide:			
es	:	Rabbit	
t	: (Corrosive	
rks	:	: May cause irreversible eye damage.	
ne:			
es	:	Rabbit	
d	: (OECD Test Gui	deline 405
t	:	No eye irritation	
enemethanol, alpha,	alpha-d	limethyl-:	
t	:	Irritating to eyes	S.
phenone:			
es	:	Rabbit	
d			available.
rks			onised classification in EU regulation nex VI
rks	:	May cause irrev	versible eye damage.
ratory or skin sensi	tisation	I	
sensitisation			
assified due to lack of	f data.		
-			
	es serious eye damag act: rks ponents: /l acetoacetate: es pure time ad t me hydroperoxide: es rks me: es ad t phenone: es ad t rks rks rks rks rks rks rks rks	es serious eye damage. Inter: rks : Inter: Ponents: // acetoacetate: es : Inter: es : Inte	Interview May cause irreview Pronents: Max cause irreview If acetoacetate: Proview Page 1 Proview Page 2 Rabbit Page 2 Rabbit Page 2 Rabbit Page 2 Proview Page 2 Rabbit Page 2 Provessible effere Page 2 Rabbit Page 2 Provessible effere Page 2 Provessible effere

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0				
	oonents:			
	yl acetoacetate:			
Expos Speci	sure routes	:	Skin contact Mouse	
Metho			OECD Test Gu	iideline 429
Resu	lt	:	Does not cause	e skin sensitisation.
Cume	ene hydroperoxide:			
Resu	lt	:	Does not cause	e skin sensitisation.
Cume	ene:			
	sure routes	:	Skin contact	
Speci Metho		:	Guinea pig OECD Test Gu	ideline 100
Resul		:		e skin sensitisation.
aceto	phenone:			
Test ⁻	-	:	Draize Test	
Expos	sure routes	: Skin contact		
Speci Resu		: Guinea pig : Does not cause skin sensitisation.		
Not cl	a cell mutagenicity lassified due to lack o conents:	f data.		
meth	yl acetoacetate:			
	toxicity in vitro	:	Method: OECD Result: negativ) Test Guideline 476 re
			Method: OECD Result: negativ) Test Guideline 471 re
			Method: OECD Result: negativ) Test Guideline 473 re
Cume	ene hydroperoxide:			
Geno	toxicity in vitro	:	Test Type: in v Test system: S Result: positive	almonella typhimurium
Geno	toxicity in vivo	:	Test Type: Mic Species: Mous Application Rou Result: negativ	e ute: Skin contact

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Cum	ene:		
Geno	otoxicity in vitro	: Method: C Result: ne	DECD Test Guideline 473 gative
		Method: C Result: ne	DECD Test Guideline 471 gative
		Method: C Result: ne	DECD Test Guideline 476 gative
		Method: C Result: ne	DECD Test Guideline 482 gative
		Test Type Result: po	: Ames test sitive
Genc	otoxicity in vivo	Exposure	n Route: Intraperitoneal time: 72 h DECD Test Guideline 474
		Exposure	n Route: inhalation (gas) time: 14 w DECD Test Guideline 474
aceto	ophenone:		
	otoxicity in vitro	: Method: C Result: ne	DECD Test Guideline 473 gative
		Method: C Result: ne	DECD Test Guideline 476 gative
		Method: C Result: ne	DECD Test Guideline 471 gative
Genc	otoxicity in vivo		n Route: Intraperitoneal DECD Test Guideline 474
	inogenicity cause cancer.		
<u>Com</u>	ponents:		
meth Rema	iyl acetoacetate: arks	: This inforr	nation is not available.

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Cumene hydroperoxide: Remarks	:	This information is not available.		
Cumene: Species Application Route Result	: : :	Rat, male and female inhalation (vapour) carcinogenic effects		
Species Application Route Result	:	Mouse, male and female inhalation (vapour) carcinogenic effects		
Carcinogenicity - Assess- ment	:	Sufficient evidence of carcinogenicity in animal experiments		
Reproductive toxicity Not classified due to lack of da	ata.			
Components:				
methyl acetoacetate: Effects on fertility	:	Species: Rat Application Route: Ingestion General Toxicity - Parent: NOAEL: > 1,000 Method: OECD Test Guideline 422 Result: negative		
Cumene hydroperoxide: Effects on fertility	:	Remarks: No data available		
Effects on foetal develop- ment	:	Remarks: No data available		
Cumene: Effects on foetal develop- ment	:	Species: Rabbit Application Route: inhalation (vapour) General Toxicity Maternal: LOAEL: 500 Developmental Toxicity: NOAEL: 2,300 Method: OECD Test Guideline 414		
acetophenone: Effects on fertility	:	Species: Rat Application Route: Ingestion General Toxicity - Parent: NOAEL: 225 mg/kg body weight General Toxicity F1: NOAEL: 225 mg/kg body weight Method: OECD Test Guideline 422		

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			Result: negative	
				Parent: LOAEL: 750 mg/kg body weight -1: LOAEL: 750 mg/kg body weight
Effe mer	cts on foetal develop- It	:		Maternal: NOAEL: 125 mg/kg body weight icity: NOAEL: 125 mg/kg body weight
	OT - single exposure cause respiratory irritatio	n.		
<u>Con</u>	nponents:			
Cun	nene:			
Ass	essment	:	May cause respira	atory irritation.
Мау	OT - repeated exposure reause damage to organs	s thr	ough prolonged or	repeated exposure.
	nponents:			
	nene hydroperoxide: essment	:	May cause damag exposure.	ge to organs through prolonged or repeated
Rep	eated dose toxicity			
<u>Con</u>	nponents:			
met	hyl acetoacetate:			
Spe		:	Rat	
NOA App	AEL lication Route	:	1,000 mg/kg Ingestion	
Exp	osure time	:	28 d	
Met	hod	:	OECD Test Guide	eline 407
Cun	nene hydroperoxide:			
Spe		:	Rat	
NO/		:	31 mg/m ³	
	lication Route osure time	:	inhalation (gas) 90 d	
Cun	nene:			

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Species NOAEL Application Route Method	: Rat : 154 mg/kg : Oral : OECD Test Guide	aline 412

acetophenone:

Species	:	Rat
NOAEL	:	225 mg/kg
LOAEL	:	750 mg/kg
Application Route	:	Ingestion
Method	:	OECD Test Guideline 422

Aspiration toxicity

Not classified due to lack of data.

Components:

Cumene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	: The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information		
<u>Product:</u> Remarks	:	Solvents may degrease the skin.
Components:		
acetophenone:		
Remarks	:	No data available

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SECTION 12: Ecological information

12.1 Toxicity

Components:		
methyl acetoacetate:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 111.4 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Cumene hydroperoxide:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3.9 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 18.8 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 3.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Desmodesmus subspicatus (green algae)): 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	NOEC (Pseudomonas putida): 50 mg/l End point: Growth rate Exposure time: 16 h
Cumene:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.8 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.14 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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	Toxicity plants	✓ to algae/aquatic	:	EC50 (Desmodes Exposure time: 72 Method: OECD Te	
-	Toxicity	<i>i</i> to microorganisms	:	EC50 : > 2,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
ä		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 0.35 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211	
I	Ecotox	cicology Assessment			
(Chronic	c aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.
I	Benzer	nemethanol, alpha,alp	oha-	dimethyl-:	
		cicology Assessment		T 1 · · · · · ·	
1	Acute a	aquatic toxicity	:	This product has r	no known ecotoxicological effects.
(Chronic	c aquatic toxicity	:	This product has r	no known ecotoxicological effects.
	acetop	henone:			
-	Toxicity	/ to fish	:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
	•	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 528 mg/l 3 h
	Toxicity plants	/ to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	

12.2 Persistence and degradability

Components:

methyl acetoacetate:

Biodegradability

: Result: Readily biodegradable. Method: OECD Test Guideline 301F

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Cum	ene hydroperoxide:			
	egradability	:		dily biodegradable. Test Guideline 301B
Cum	ene:			
Biode	egradability	:	Result: Readily	biodegradable.
Benz	enemethanol, alpha,a	alpha	-dimethyl-:	
Biode	egradability	:	Remarks: No da	ata available
aceto	ophenone:			
Biode	egradability	:	Result: Readily Method: OECD	biodegradable. Test Guideline 301C
2.3 Bioa	ccumulative potentia	I		
<u>Com</u>	ponents:			
	yl acetoacetate:			
	ion coefficient: n- ol/water	:	log Pow: -0.4 (2	20 °C)
Cum	ene hydroperoxide:			
	ion coefficient: n- ol/water	:	log Pow: 1.6	
Cum	ene:			
Bioad	ccumulation	:	Bioconcentratio Remarks: Calcu	n factor (BCF): 94.69 Jlation
	ion coefficient: n- ol/water	:	log Pow: 3.55 (2	23 °C)
Benz	enemethanol, alpha,a	alpha	-dimethyl-:	
	ion coefficient: n- ol/water	:	Remarks: No da	ata available
aceto	ophenone:			
Bioad	ccumulation	:	Bioconcentratio	n factor (BCF): 0.48
	ion coefficient: n- ol/water	:	log Pow: 1.63	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:		
Additional ecological infor- mation	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
		Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Product Dispose of wastes in an approved waste disposal facility. : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Contaminated packaging Dispose of in accordance with local regulations. Clean container with water. Dispose of contents/ container to an approved waste disposal plant. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information 14.1 UN number or ID number ADR : UN 3109 RID : UN 3109 IMDG UN 3109 5 ΙΑΤΑ UN 3109 : 14.2 UN proper shipping name ADR ORGANIC PEROXIDE TYPE F, LIQUID : (CUMYL HYDROPEROXIDE) RID ORGANIC PEROXIDE TYPE F, LIQUID : (CUMYL HYDROPEROXIDE) IMDG : ORGANIC PEROXIDE TYPE F, LIQUID (CUMYL HYDROPEROXIDE) ΙΑΤΑ Organic peroxide type F, liquid 1 (Cumyl hydroperoxide) 14.3 Transport hazard class(es) Class Subsidiary risks ADR 5.2 2 RID 5.2 2 IMDG 1 5.2 HEAT ΙΑΤΑ 5.2 2 14.4 Packing group ADR Not assigned by regulation Packing group 1 Classification Code P1 : Hazard Identification Number : 539 Labels 5.2 . Tunnel restriction code : (D) RID Packing group Not assigned by regulation 2 Classification Code P1 : Hazard Identification Number : 539 Labels 5 5.2 IMDG Packing group Not assigned by regulation ÷ Labels 2 5.2

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EmS Code	:	F-J, S-R
IATA (Cargo)		
Packing instruction (cargo aircraft)	:	570
Packing group	:	Not assigned by regulation
Labels	:	Organic Peroxides, Keep Away From Heat
IATA (Passenger)		
Packing instruction (passen- ger aircraft)	:	570
Packing group	:	Not assigned by regulation
Labels	:	Organic Peroxides, Keep Away From Heat
14.5 Environmental hazards		

ADR Environmentally hazardous	:	yes
RID Environmentally hazardous	:	yes
IMDG Marine pollutant	:	yes

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on	:	Conditions of restriction for the fol-
the market and use of certain dangerous substances,		lowing entries should be considered:
mixtures and articles (Annex XVII)		Number on list 3

Number on list 28: Cumene

Number on list 75: If you intend to use this product as tattoo ink, please

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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contact your vendor.

REACH - Candidate List of Substances of Very Concern for Authorisation (Article 59).	' High	: Not applica	able	
Regulation (EC) on substances that deplete the layer	: Not applica	able		
Regulation (EU) 2019/1021 on persistent organ tants (recast)	019/1021 on persistent organic pollu-			
• • • •	egulation (EU) No 649/2012 of the European Parlia- ent and the Council concerning the export and import dangerous chemicals			
REACH - List of substances subject to authoris (Annex XIV)	EACH - List of substances subject to authorisation nnex XIV)			
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	H2	ACUTE TOXIC		
	P6b		VE SUBSTANCES S and ORGANIC	
	E2	ENVIRONMEN	TAL HAZARDS	

Other regulations:

Gefahrgruppe nach TRGS 741: lb (German regulatory requirements)

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

TCSI (TW)	:	On the inventory, or in compliance with the inventory
TSCA (US)	:	All substances listed as active on the TSCA inventory
AIIC (AU)	:	On the inventory, or in compliance with the inventory
DSL (CA)	:	All components of this product are on the Canadian DSL

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ENCS	S (JP)	: On the inventor	ory, or in compliance with the inventory
ISHL	(JP)	: On the inventor	ory, or in compliance with the inventory
KECI	(KR)	: On the inventor	ory, or in compliance with the inventory
PICC	S (PH)	: On the inventor	ory, or in compliance with the inventory
IECS	C (CN)	: On the inventor	ory, or in compliance with the inventory

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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IE O	EL	р		emical Agents and Carcinogens with Occu- e Limit Values - Code of Practice, Schedule 1				
2000/39/EC / TWA 2000/39/EC / STEL 2019/1831/EU / TWA		: L	: Limit Value - eight hours					
		: S	Short term exposure limitLimit Value - eight hours					
		: L						
2019/1831/EU / STEL		: S	Short term exposure limit					
IE O	EL / OELV - 8 hrs (TWA)	: C	Occupational exp	osure limit value (8-hour reference period)				
IE O	EL / OELV - 15 min	: Occupational exposure limit value (15-minute reference peri-						
(STE	EL)	od)						

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; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification. These safety instructions also apply to empty packaging which

may still contain product residues.

The hazards on the label also apply to residues in the con-

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		tainer.				
	ces of key data used to vile the Safety Data t	eChem Porta	: Internal technical data, data from raw material SDSs, OECI eChem Portal search results and European Chemicals Age cy, http://echa.europa.eu/			
Class	sification of the mixtu	ıre:	Classification procedure:			
Flam	. Liq. 3	H226	Based on product data or assessment			
Org.	Perox. F	H242	Based on product data or assessment			
Acute	e Tox. 4	H302	Calculation method			
Acute	e Tox. 3	H331	Calculation method			
Skin	Corr. 1B	H314	Calculation method			
Eye [Dam. 1	H318	Calculation method			
Carc.	.1B	H350	Calculation method			
STO	T SE 3	H335	Calculation method			
STO	T RE 2	H373	Calculation method			
Aqua	tic Chronic 2	H411	Calculation method			

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

IE / EN