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SECTION 1:	Identification of the su	bstance/mixture and of	the company/undertaking
1.1 Product ic	lentifier		
Trade nar	me : N	OROX KP-9	
1.2 Relevant i	dentified uses of the sub	stance or mixture and use	es advised against
Use of the stance/Mi		uring chemical	
1.3 Details of	the supplier of the safety	data sheet	
Company		nited Initiators GmbH rGustav-Adolph-Str. 3	
		32049 Pullach	
	dress of person : co le for the SDS	ontact@united-in.com	
1.4 Emergenc	y telephone number		
+49 / 89 /	74422 – 0 (24 h)		
SECTION 2:	Hazards identification		
2.1 Classifica	tion of the substance or i	nixture	
	ation (REGULATION (EC)	•	
Organic p	eroxides, Type D	H242: Heating may	y cause a fire.
Acute tox	icity, Category 4	H302: Harmful if sv	wallowed.
Acute tox	icity, Category 4	H332: Harmful if in	haled.
Skin corro	osion, Category 1B	H314: Causes sev	ere skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H242 Heating may cause a fire. H302 + H332 Harmful if swallowed or if inhaled H314 Causes severe skin burns and eye damage.

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Precautionary statements

Prevention:

P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.

P233 Keep container tightly closed.

P235 Keep cool.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P262 Do not get in eyes, on skin, or on clothing.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P315 Get immediate medical advice/ attention.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: 2-Butanone, peroxide (CAS-No. 1338-23-4)

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature	:	Organic Peroxide
		Liquid mixture

Hazardous components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
2-Butanone, peroxide	Registration number 1338-23-4	Org. Perox. D; H242	>= 30 - < 35
, p	215-661-2	Acute Tox. 4; H302	

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Hydroger	n peroxide	01-2119514691-43 7722-84-1 231-765-0 01-2119485845-22	Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 Ox. Liq. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Chronic 3;	>= 1 - < 2.5
2-Methyl	-2,4-pentanediol	107-41-5 203-489-0 01-2119539582-35	H412 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General 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. Call a physician immediately.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
If inhaled	:	Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Call a physician immediately. If breathed in, move person into fresh air.
In case of skin contact	:	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. If symptoms persist, call a physician.
In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tis- sue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

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If swallov	wed	:	Keep respiratory tract clear. Do NOT induce vomiting. Call a physician immediately. Rinse mouth thoroughly with wa	ater.
4.2 Most imp	ortant symptoms an	d e	effects, both acute and delayed	
Risks		:	Harmful if swallowed or if inhale Causes serious eye damage. Causes severe burns.	d
4.3 Indication	n of any immediate n	neo	dical attention and special treat	tment needed
Treatme	nt	:	Treat symptomatically and supp	oortively.
SECTION 5	Firefighting meas	ur	es	
5.1 Extinguis	shing media			
_	extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical	
Unsuitab media	le extinguishing	:	High volume water jet	
5.2 Special h	azards arising from	the	e substance or mixture	
-	hazards during fire-	:	Contact with incompatible mate tures exceeding SADT may res composition reaction with releas may auto-ignite. The product burns violently. Flash back possible over consid Vapours may form explosive mi The product will float on water a water. Cool closed containers exposed	ult in a self-accelerating de- se of flammable vapors which derable distance. xtures with air. and can be reignited on surface
5.3 Advice fo	or firefighters			
	protective equipment	:	Wear self-contained breathing a essary. Use personal protective	
Specific ods	extinguishing meth-	:	Do not use a solid water stream fire.	as it may scatter and spread

fire. Remove undamaged containers from fire area if it is safe to do so.

Use water spray to cool unopened containers.

Further information	:	Collect contaminated fire extinguishing water separately. This
		must not be discharged into drains.

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		be disposed of in accordance	hat are appropriate to local cir-
SECTION 6:	Accidental release	emeasures	
6.1 Personal	precautions, protecti	ve equipment and emergency	procedures
Personal	precautions	tions. Vapours can accumulat Never return spills in original o	n. nd personal protective equip- ting to form explosive concentra- e in low areas.
6.2 Environm	ental precautions		
Environm	nental precautions	 Prevent product from entering Prevent further leakage or spi If the product contaminates riv respective authorities. 	
6.3 Methods	and material for cont	ainment and cleaning up	
Methods	for cleaning up	tion at or below SADT. Clear spills immediately. Suppress (knock down) gases spray jet. To clean the floor and all obje al, use plenty of water. Soak up with inert absorbent r Isolate waste and do not reus Non-sparking tools should be Local or national regulations r posal of this material, as well	cts contaminated by this materi- material. e. used. may apply to releases and dis- as those materials and items leases. You will need to deter-

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Technical measures
- : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

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Advi	ice on safe handling	:	originally removed. Provide sufficient air exchang Avoid confinement. Keep away from heat, hot sur other ignition sources. No sm	yes. s against static discharges. he container from which it was ge and/or exhaust in work rooms. rfaces, sparks, open flames and loking. should be prohibited in the ap- ng.
	ice on protection against and explosion	:		urces of ignition. Use only explo- away from combustible material.
Hygi	iene measures	:	Keep away from food and dri drink. When using do not smo and immediately after handlin	oke. Wash hands before breaks
7.2 Cond	litions for safe storage, i	inc	luding any incompatibilities	
	uirements for storage as and containers	:	Electrical installations / worki the technological safety stand opened must be carefully res leakage. Store in original con	ealed and kept upright to prevent tainer. Keep containers tightly ed place. Store in accordance
Advi	ice on common storage	:	Keep away from strong acids other reducing substances.	, bases, heavy metal salts and
Rec pera	ommended storage tem- ature	:	< 30 °C	
Othe	er data	:	No decomposition if stored no	ormally.
7.3 Spec	ific end use(s)			
Spe	cific use(s)	:	For further information, refer the sheet.	to the product technical data

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components 0	CAS-No.	Value type (Form	Control parameters	Basis

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			of exposure)			
dimethyl	phthalate	Dimethyl phthalate	TWA	5 mg/m3		GB EH40
			STEL	10 mg/m3		GB EH40
2-Butano ide	one, perox-	2-Butanone, peroxide	STEL	0.2 ppm 1.5 mg/m3		GB EH40
Hydroge	n peroxide	Hydrogen peroxide	TWA	1 ppm 1.4 mg/m3		GB EH40
			STEL	2 ppm 2.8 mg/m3		GB EH40
2-Methyl pentane		2- methylpen- tane-2,4-diol	TWA	25 ppm 123 mg/m3		GB EH40
			STEL	25 ppm 123 mg/m3		GB EH40

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
2-Butanone, peroxide	Workers	Inhalation	Long-term systemic effects	2.35 mg/m3
	Workers	Skin contact	Long-term systemic effects	1.33 mg/kg bw/day
	Workers	Inhalation	Acute systemic ef- fects	7.05 mg/m3

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

Substance name	Environmental Compartment	Value	
2-Butanone, peroxide	Fresh water	0.0056 mg/l	
	Marine water	0.00056 mg/l	
	Intermittent use/release	0.056 mg/l	
	Sewage treatment plant	1.2 mg/l	
	Fresh water sediment	0.0876 mg/kg	
	Marine sediment	0.00876 mg/kg	
	Soil	0.0142 mg/kg	

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Personal protective equipment

Eye protection	:	Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face pro- tection if there is a splash hazard. Ensure that eyewash stations and safety showers are close to the workstation location.
Hand protection Material Break through time Glove thickness	:	butyl-rubber >= 480 min 0.5 mm
Skin and body protection	:	Select appropriate protective clothing based on chemical re-

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			sistance data and an assessme tial.	nt of the local exposure poten-
Respira	atory protection	:	In the case of dust or aerosol for approved filter.	rmation use respirator with an
Filter type :		ABEK-filter		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	
Colour	:	colourless, clear
Odour	:	mint-like
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	> 80 °C
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	ca. 1.1 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	slightly soluble
Solubility in other solvents	:	Solvent: organic solvents Description: soluble
		Solvent: Phthalates Description: soluble
Partition coefficient: n- octanol/water	:	Not applicable

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	Viscosity Viscosity, dynamic Explosive properties Oxidizing properties		ca. 15 mPa.s Not explosive The substance or mixture is not classified as oxidizing. Organic peroxide	
	9.2 Other information Self-Accelerating decomposition temperature (SADT)		> 60 °C Method: UN-Test H.4 SADT-Self Accelerating Decomposition temperature at which the tested p self-accelerating decomposition r	backage size will undergo a

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Vapours may form explosive mixture with air.
---------------------	---	--

10.4 Conditions to avoid

Conditions to avoid	 Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
	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 toxicological effects

Acute toxicity Harmful if swallowed or if inhaled

Product:

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Version 3.3	Revision Date: 27.09.2017		SDS Number: 60000000306	Print Date: 23.01.2018
Acute ora	al toxicity	:	Acute toxicity estimate: 1,479 mg/k Method: Calculation method	g
Acute inh	alation toxicity	:	Acute toxicity estimate: 4.32 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method	
<u>Compon</u>	ents:			
2-Butanc	one, peroxide:			
Acute ora	al toxicity	:	Acute toxicity estimate: 500 mg/kg Method: Expert judgement	
Acute inh	alation toxicity	:	Acute toxicity estimate: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Assessment: The component/mixtu short term inhalation. Remarks: Based on data from simi	-
Acute de	rmal toxicity	:	Acute toxicity estimate: 2,500 mg/k Method: Expert judgement	g
Hydroge	n peroxide:			
Acute ora	al toxicity	:	LD50 (Rat, male): 1,026 mg/kg Method: OECD Test Guideline 401	
Acute inh	alation toxicity	:	LC50 (Rat): > 0.17 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixtu short term inhalation. Remarks: Based on harmonised cl 1272/2008, Annex VI	-
Acute de	rmal toxicity	:	LD50 (Rabbit): > 6,500 mg/kg	
2-Methyl	-2,4-pentanediol:			
Acute ora	•	:	LD0 (Rat): > 4,000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mix icity	
Acute inh	alation toxicity	:	Remarks: No data available	
Acute de	rmal toxicity	:	LD50 (Rabbit): 7,892 mg/kg Assessment: The substance or mix toxicity	ture has no acute dermal

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Skin corrosion/irritation

Causes severe burns.

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

2-Butanone, peroxide: Species: Rabbit

Result: Causes burns.

Hydrogen peroxide:

Result: Corrosive after 3 minutes or less of exposure

2-Methyl-2,4-pentanediol:

Species: Rabbit Result: Skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

2-Butanone, peroxide: Result: Irreversible effects on the eye

Hydrogen peroxide:

Result: Irreversible effects on the eye

2-Methyl-2,4-pentanediol:

Species: Rabbit Result: irritating

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

2-Butanone, peroxide: Species: Guinea pig

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	ECD Test Guideline 4 bes not cause skin sen		٦.			
Assessment: Harmful if swallowed., Harmful if inhaled.						
2-Methyl-	2,4-pentanediol:					
Species: C Method: C	routes: Skin contact Guinea pig DECD Test Guideline 4 bes not cause skin sen		٦.			
	mutagenicity	e informa	ation.			
<u>Compone</u>	ents:					
	ne, peroxide:					
Genotoxic	ity in vitro :		od: OECD Test Guidelin t: negative	e 473		
	:		od: OECD Test Guidelin t: negative	e 471		
	:		od: OECD Test Guidelin t: negative	e 476		
Hydrogen	peroxide:					
Genotoxic	ity in vitro :		ype: Ames test t: negative			
Genotoxic	ity in vivo :	cytoge Speci	ype: Mammalian erythr enetic assay) es: Mouse t: negative	ocyte micronucleus test (in vivo		
2-Methyl-	2,4-pentanediol:					
Genotoxic	ity in vitro :		ype: Chromosome abe t: negative	rration test in vitro		
Carcinogo Not classif	enicity fied based on available	e inform:	ation			
101 010301						

2-Butanone, peroxide:

Remarks: This information is not available.

2-Methyl-2,4-pentanediol:

Remarks: This information is not available.

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Repro	ductive toxicity		
Not cla	assified based on available i	nformation.	
Comp	onents:		
2-Buta	none, peroxide:		
Effects		Species: Rat Application Route: oral (gava General Toxicity - Parent: NC Method: OECD Test Guidelin Result: negative	DAEL: 50 mg/kg body weight
2-Meth	yl-2,4-pentanediol:		
	s on fertility :	Species: Rat Result: negative	
	- single exposure assified based on available i	nformation.	
Comp	onents:		
-	gen peroxide: sment: May cause respirator	ry irritation.	
	n yl-2,4-pentanediol: ks: No data available		
	- repeated exposure assified based on available i	nformation.	
Comp	onents:		
	nyl-2,4-pentanediol: ks: No data available		
Repea	ted dose toxicity		
Comp	onents:		
Specie NOAEI Applica Exposi	mone, peroxide: es: Rat L: 200 mg/kg ation Route: oral (gavage) ure time: 28 d d: OECD Test Guideline 407	7	
Specie Applica Exposi	gen peroxide: es: Mouse ation Route: Ingestion ure time: 90 d oms: No adverse effects		

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2-Methyl-2,4-pentanediol:

Species: Rat NOAEL: 450 mg/kg Application Route: Ingestion Method: OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-Butanone, peroxide:		
Toxicity to fish		LC50 (Poecilia reticulata (guppy)): 44.2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
		NOEC (Poecilia reticulata (guppy)): 18 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		NOEC (Daphnia magna (Water flea)): 26.7 mg/l Method: OECD Test Guideline 202
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 5.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 2.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 (Bacteria): 48 mg/l Exposure time: 0.5 h Method: OECD Test Guideline 209

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	n peroxide:			
Toxicity to	o fish	:	LC50 (Pimephales promelas (Exposure time: 96 h	fathead minnow)): 16.4 mg/l
	o daphnia and other overtebrates	:	LC50 (Daphnia pulex (Water f Exposure time: 48 h	lea)): 2.4 mg/l
Toxicity to	o algae	:	EC50 (Skeletonema costatum Exposure time: 72 h	(marine diatom)): 1.38 mg/l
			NOEC (Skeletonema costatun Exposure time: 72 h	n (marine diatom)): 0.63 mg/l
Toxicity to	o microorganisms	:	EC50 : Method: OECD Test Guideline	e 209
	o daphnia and other overtebrates (Chron-)	:	: NOEC: 0.63 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)	
2-Methyl	-2,4-pentanediol:			
Toxicity to	o fish	:	LC50 (Gambusia affinis (Mosc Exposure time: 96 h Method: OECD Test Guideline	
	o daphnia and other overtebrates	:	EC50 (Daphnia magna (Water Exposure time: 48 h Method: OECD Test Guideline	
Toxicity t	o algae	:	EC50 (Pseudokirchneriella sul mg/l Exposure time: 72 h Method: OECD Test Guideline	
12.2 Persiste	nce and degradabili	ty		

	-					
<u>C</u>	on	npo	one	nts:		

2-Butanone, peroxide:		
Biodegradability	:	Result: Readily biodegradable. Method: OECD Test Guideline 301D
Hydrogen peroxide:		
Biodegradability	:	Result: Readily biodegradable.
2-Methyl-2,4-pentanediol:		
Biodegradability	:	Result: Readily biodegradable. Method: OECD Test Guideline 301F

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12.3 Bioaccu	mulative potential		
<u>Compon</u>	ents:		
2-Butanc	one, peroxide:		
Partition octanol/w		log Pow: < 0.3 (25 °C)	
Hydroge	n peroxide:		
	coefficient: n- :	log Pow: -1.57	
octanol/w	/ater	Remarks: Calculation	
2-Methyl	-2,4-pentanediol:		
Partition octanol/w	coefficient: n- : /ater	log Pow: -0.14	
12.4 Mobility	in soil		
No data a	available		
12.5 Results	of PBT and vPvB asse	essment	
Product:	<u>.</u>		
Assessm	ent :	This substance/mixture contain to be either persistent, bioaccu very persistent and very bioaccu 0.1% or higher	umulative and toxic (PBT), or
12.6 Other ad	lverse effects		
Product:			
Additiona mation	Il ecological infor- :	An environmental hazard ca of unprofessional handling o Toxic to aquatic life.	nnot be excluded in the event or disposal.
SECTION 13	3: Disposal conside	rations	
13.1 Waste tr	eatment methods		
Product	:	The product should not be allo	wed to enter drains, water
		courses or the soil.	
		cal or used container.	aterways or ditches with chemi-
		Dianaga of wester in an appro	und wante diaponal facility

Contaminated packaging :	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. Dispose of in accordance with local regulations.
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Dispose of wastes in an approved waste disposal facility.

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SECTION 14: T	ransport informa	tion		
14.1 UN number				
ADN	:	UN 3105		
ADR	:	UN 3105		
RID	:	UN 3105		
IMDG	:	UN 3105		
ΙΑΤΑ	:	UN 3105		
14.2 UN proper s	shipping name			
ADN	:		E TYPE D, LIQUID TONE PEROXIDE(S))	
ADR	:	ORGANIC PEROXIDI (METHYL ETHYL KE	E TYPE D, LIQUID TONE PEROXIDE(S))	
RID	:	ORGANIC PEROXIDI (METHYL ETHYL KE	E TYPE D, LIQUID TONE PEROXIDE(S))	
IMDG	:	ORGANIC PEROXIDI (METHYL ETHYL KE	E TYPE D, LIQUID TONE PEROXIDE(S))	
ΙΑΤΑ	:	Organic peroxide type (Methyl ethyl ketone p		
14.3 Transport h	azard class(es)			
ADN	:	5.2		
ADR	:	5.2		
RID	:	5.2		
IMDG	:	5.2		
ΙΑΤΑ	:	5.2		
14.4 Packing gro	oup			
ADN Packing grou Classification Labels	up : n Code : :	Not assigned by regul P1 5.2	ation	
ADR Packing grou Classification Labels Tunnel restri	n Code :	Not assigned by regul P1 5.2 (D)	ation	
RID Packing grou Classification Hazard Iden Labels IMDG		Not assigned by regul P1 539 5.2	ation	

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Packing group Labels EmS Code	:		Not assigned by regulati 5.2 F-J, S-R	on	
IATA (Cargo) Packing instruc aircraft)	tion (cargo :		570		
Packing group Labels	:		Not assigned by regulation Organic Peroxides, Keep		m Heat
IATA (Passeng Packing instruc ger aircraft)		:	570		
Packing group Labels	:		Not assigned by regulation Organic Peroxides, Keep		m Heat
14.5 Environmenta	l hazards				
ADN Environmentally	y hazardous :		no		
ADR Environmentall <u>y</u>	y hazardous :		no		
RID Environmentall <u>y</u>	y hazardous :		no		
IMDG Marine pollutan	t :		no		
14.6 Special precau Not applicable	utions for user				
-	ulk according to		Annex II of Marpol and t lied.	he IBC Co	de
SECTION 15: Reg	ulatory inform	nat	tion		
15.1 Safety, health ture	and environmer	nta	al regulations/legislatio	n specific	for the substance or mix-
	idate List of Subs thorisation (Articl		nces of Very High 59).	Not app	licable
Regulation (EC plete the ozone		on	substances that de-	Not app	licable
Regulation (EC) No 850/2004 or	n p	ersistent organic pol-	Not app	licable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	50 t	200 t

according to Regulation (EC) No. 1907/2006

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Other regul	ations :		Gefahrengruppe nach § 3 BGV B4 requirements)	: Ib (German regulatory
			Take note of Directive 94/33/EC or people at work or stricter national r ble.	
The compo	onents of this produ	IC	t are reported in the following inv	entories:
AICS (AU)	:		On the inventory, or in compliance	with the inventory
NZIoC (NZ)	:		On the inventory, or in compliance	with the inventory
ENCS (JP)	:		On the inventory, or in compliance	with the inventory
ISHL (JP)	:		On the inventory, or in compliance	with the inventory
KECI (KR)	:		On the inventory, or in compliance	with the inventory
PICCS (PH) :		On the inventory, or in compliance	with the inventory
IECSC (CN) :		On the inventory, or in compliance	with the inventory
TCSI (TW)	:		On the inventory, or in compliance	with the inventory
TSCA (US)	:		On TSCA Inventory	

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance. For further information see eSDS.

SECTION 16: Other information

Full text of H-Statements

H242 H271 H302 H314 H315 H318 H319 H332 H335 H412	:	Heating may cause a fire. May cause fire or explosion; strong oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
Full text of other abbreviation Acute Tox. Aquatic Chronic Eye Dam. Eye Irrit. Org. Perox. Ox. Liq. Skin Corr.		Acute toxicity Chronic aquatic toxicity Serious eye damage Eye irritation Organic peroxides Oxidizing liquids Skin corrosion

according to Regulation (EC) No. 1907/2006



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Skin Irrit. STOT SE Skin irritation

5

: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; TCSI - Taiwan Chemical Substance 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

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.

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