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

### **1.1 Product identifier**

Trade name : NOROX<sup>®</sup>500-90

### 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

0800 0 621 2139 (toll-free, access from Turkey only)

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

se a fire.
allowed and enters air-
asting harmful effects to

### 2.2 Label elements

Labelling T.R. SEA No 28848

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Hazar	d pictograms	:		
Signal	word	:	Danger	
Hazar	d statements	:	H304 May be fa	hay cause a fire. tal if swallowed and enters airways. e long lasting harmful effects to aquatic life.
Preca	utionary statements	:	es. No smoking. P220 Keep/Stor heavy metal salts materials. P234 Keep only P280 Wear prot <b>Response:</b> P301 + P310 IF CENTER or doctor P331 Do NOT i P370 + P378 In resistant foam, dry <b>Storage:</b>	y from heat/ sparks/ open flames/ hot surfac- e away from clothing/ strong acids, bases, and other reducing substances /combustible in original container. ective gloves/ eye protection/ face protection.

Hazardous components which must be listed on the label:

Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated (CAS-No. 93685-81-5)

### 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

### Components

Chemical name CAS-No. Classification Concentration
--

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	EC-No. Index-No. Registration num- ber		(% w/w)
di-tert-butyl 3,3,5- trimethylcyclohexylidene diperoxide	6731-36-8 229-782-3	Org. Perox. B; H241 Aquatic Chronic 4; H413	>= 85 - < 90
Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated	93685-81-5 236-757-0	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413	>= 10 - < 15

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. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. Call a physician immediately.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
lf inhaled	:	Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathed in, move person into fresh air.
In case of skin contact	:	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	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

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If swallowed		:	Keep respiratory tract clear. Do NOT induce vomiting. Call a physician immediately. Contact a poison control center.					
4.2 Mo	st important symptoms a	nd e	effects, both acute	e and delayed				
Ri	sks	:	May be fatal if swallowed and enters airways.					
	-	me		d special treatment needed				
110	eatment	i	freat symptomati	cally and supportively.				
SECT	SECTION 5: Firefighting measures							
5.1 Ext	inguishing media							
Su	uitable extinguishing media	:	Water spray jet Alcohol-resistant Carbon dioxide (C Dry chemical					
	nsuitable extinguishing edia	:	High volume wate	er jet				
5.2 Sp	ecial hazards arising from	n the	e substance or mi	xture				
Sp	becific hazards during fire- hting	:	Contact with inco tures exceeding S composition react may auto-ignite. The product burns Flash back possit Vapours may form The product will fl water.	mpatible materials or exposure to tempera- SADT may result in a self-accelerating de- tion with release of flammable vapors which				
5.3 Adv	vice for firefighters							
	pecial protective equipment firefighters	:		ed breathing apparatus for firefighting if nec- onal protective equipment.				
Sr od	pecific extinguishing meth- Is	:	fire. Remove undamaç so.	d water stream as it may scatter and spread ged containers from fire area if it is safe to do to cool unopened containers.				

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Furthe	er information	must not be dis Fire residues a be disposed of Use extinguish	inated fire extinguishing water separately. This scharged into drains. and contaminated fire extinguishing water must in accordance with local regulations. ing measures that are appropriate to local cir- nd the surrounding environment.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

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

### 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.

### 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.
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### 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.
	Advice on safe handling	:	Do not swallow. Do not breathe vapours/dust. 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. Protect from contamination.
	Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. Use only explo- sion-proof equipment. Keep away from combustible material.
	Hygiene measures	:	Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.
7.2 (	Conditions for safe storage, i	ncl	uding any incompatibilities
	Requirements for storage areas and containers	:	Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with the particular national regulations.
	Advice on common storage	:	Keep away from strong acids, bases, heavy metal salts and other reducing substances.
	Recommended storage tem- perature	:	< 30 °C

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Further information on stor- : No decomposition if stored normally. age stability

### 7.3 Specific end use(s)

Specific use(s)

: For further information, refer to the product technical data sheet.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### Derived No Effect Level (DNEL) :

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
di-tert-butyl 3,3,5- trimethylcyclohexyli- dene diperoxide	Workers	Inhalation	Long-term systemic effects	1,4 mg/m3
	Workers	Skin contact	Long-term systemic effects	2 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) :

Substance name	Environmental Compartment	Value
di-tert-butyl 3,3,5- trimethylcyclohexylidene diperox- ide	Fresh water sediment	0,102 mg/kg dry weight (d.w.)
	Marine sediment	0,01 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Soil	5,29 mg/kg dry weight (d.w.)

### 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 protection if there is a splash hazard.

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.

### Hand protection

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B G M B	laterial reak through time slove thickness laterial reak through time slove thickness	:	butyl-rubber < 30 min 0,47 mm Nitrile rubber 480 min 0,40 mm	
R	emarks	:	standard values! material has to be tive glove. Choose depending on the ous substance an plications, we rece cals of the aforem	eak through time/strength of material are The exact break through time/strength of e obtained from the producer of the protec- e gloves to protect hands against chemicals concentration and quantity of the hazard- d specific to place of work. For special ap- ommend clarifying the resistance to chemi- entioned protective gloves with the glove ash hands before breaks and at the end of
Skin and body protection		:	sistance data and tial. Additional body ga being performed ( suits) to avoid exp Wear as appropria	e protective clothing based on chemical re- an assessment of the local exposure poten- arments should be used based upon the task (e.g., sleevelets, apron, gauntlets, disposable bosed skin surfaces. ate: untistatic protective clothing.
Resp	piratory protection	:	In the case of dus approved filter.	t or aerosol formation use respirator with an
F	ilter type	:	ABEK-filter	
Prote	ective measures	:		tive equipment must be selected according on and amount of the dangerous substance kplace.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	musty

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	Odour	Threshold	:	not determined		
	рН		:	substance/mixtur	re is non-soluble (in water)	
	Melting	point/range	:	< -25 °C		
	Boiling	point/boiling range	:	Decomposition: I	Decomposes below the boiling point.	
	Flash p	point	:	63 °C Method: ISO 367	79, closed cup	
	Evapora	ation rate	:	No data available	)	
	Flamma	ability (solid, gas)	:	Not applicable		
		explosion limit / Upper bility limit	:	Upper explosion not determined	limit	
		explosion limit / Lower bility limit	:	Lower explosion not determined	limit	
	Vapour	pressure	:	0,00009 hPa (20	°C)	
	Relative	e vapour density	:	not determined		
	Relative	e density	:	not determined		
	Density	,	: 0,895 g/cm3 (20 °C)		°C)	
	Solubili Wat	ty(ies) er solubility	:	insoluble		
	Solu	ubility in other solvents	:	Solvent: Alcohol Description: com	pletely miscible	
				Solvent: organic Description: com		
	Partitio octanol	n coefficient: n- /water	:	log Pow: 7,0 (25	°C)	
	Viscosi Visc	ity cosity, dynamic	:	18 mPa.s (20 °C)	)	
	Viso	cosity, kinematic	:	not determined		
	Explosi	ive properties	:	Not explosive In use, may form	flammable/explosive vapour-air mixture	).

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0	xidizing properties	:	The substance o Organic peroxide	r mixture is not classified as oxidizing.
<b>9.2 Other information</b> Self-Accelerating decomposition temperature (SADT)		:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
FI	ammability (liquids)	:	Flammable liquid	l, Organic peroxide
S	elf-heating substances	:	The substance o	r mixture is not classified as self heating.
R	efractive index	:	1,438 at 20 °C	
S	elf-ignition	:	The substance o	r mixture is not classified as pyrophoric.

### **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	<ul> <li>Protect from contamination. Contact with incompatible substances can cause decomposi- tion at or below SADT. Heat, flames and sparks. Avoid confinement.</li> </ul>
---------------------	--

### 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

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### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Not classified based on available information.

### Components:

### di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:

Acute oral toxicity :	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity :	LC50 (Rat): > 5,6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity :	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

### Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox- icity Remarks: Based on data from similar materials
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402

### Skin corrosion/irritation

Not classified based on available information.

### Components:

di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:				
Species	: Rabbit			

opecies	. Nabbit
Method	: OECD Test Guideline 404

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Resu	lt	: No skin irritat	tion
<b>Hydro</b> Resul			nerised., triisobutylene fraction, hydrogenated posure may cause skin dryness or cracking.
	ous eye damage/eye lassified based on av		
	ponents:		
di-ter	rt-butyl 3,3,5-trimeth	ylcyclohexylidene o	diperoxide:
Speci Metho Resu	bd	: Rabbit : OECD Test ( : No eye irritat	Guideline 405 ion
Hydro	ocarbons, C4, 1,3-bı	utadiene-free, polyn	nerised., triisobutylene fraction, hydrogenated
Resu	lt	: No eye irritat	ion
Resp	iratory or skin sensi	tisation	
	<b>sensitisation</b> lassified based on av	ailable information.	
-	iratory sensitisation		
	lassified based on av	ailable information.	
-	ponents:		
GI-ter Speci Metho Resul	bd	: Guinea pig : OECD Test (	Guideline 406 Juse skin sensitisation.
	n <b>cell mutagenicity</b> lassified based on av	ailable information.	
<u>Com</u>	ponents:		
	rt-butyl 3,3,5-trimeth toxicity in vitro	: Test Type: C	Chromosome aberration test in vitro CD Test Guideline 473
			Bacterial reverse mutation assay (AMES) CD Test Guideline 471 tive

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		Test Type: In	vitro mammalian cell gene mutation test
			D Test Guideline 476
Genot	oxicity in vivo	: Remarks: No	data available
-			erised., triisobutylene fraction, hydrogenate
Germ sessn	cell mutagenicity- As- nent	: No known effe	ect.
Carci	nogenicity		
Not cl	assified based on avail	able information.	
<u>Comp</u>	oonents:		
di-ter	t-butyl 3,3,5-trimethyl	cyclohexylidene d	iperoxide:
Speci		: Mouse	
Applic Resul	ation Route t	: Oral : negative	
Hvdro	ocarbons, C4, 1,3-buta	adiene-free, polvm	erised., triisobutylene fraction, hydrogenate
-	nogenicity - Assess-		
Repro	oductive toxicity		
Not cl	assified based on avail	able information.	
<u>Comp</u>	oonents:		
di-ter	t-butyl 3,3,5-trimethyl	cyclohexylidene d	iperoxide:
Effect	s on fertility	: Remarks: No	data available
Effect	s on foetal develop-	: Species: Rat	
ment			oute: oral (gavage)
			tity Maternal: NOAEL: 1.000 mg/kg body weigh D Test Guideline 414
Hydro	ocarbons, C4, 1,3-buta	adiene-free, polym	erised., triisobutylene fraction, hydrogenate
Popro	ductive toxicity - As-	: No known effe	ect.

Not classified based on available information.

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### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Components:

Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated: May be fatal if swallowed and enters airways.

### **Further information**

### Product:

Remarks

: Solvents may degrease the skin.

### Components:

Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated: Remarks : May cause headache and dizziness.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Components:

### di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 0,043 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	:	EC10 (Pseudokirchneriella subcapitata (green algae)): 0,11 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms	:	EC50 (Bacteria): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

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aqua	ity to daphnia and other tic invertebrates (Chron- cicity)	:	Method: OECD		
Ecot	oxicology Assessment				
Chro	nic aquatic toxicity	:	May cause long	a lasting harmful effects to aquatic life.	
Hydr	ocarbons, C4, 1,3-buta	die	ne-free, polyme	rised., triisobutylene fraction, hydrogenated	
		:	EC50 (Daphnia Exposure time:	(water flea)): > 0,04 mg/l	
aqua	tic invertebrates			nation given is based on data obtained from	
Toxic plant	ity to algae/aquatic s	:	IC50 (algae): > 0,04 mg/l Exposure time: 72 h Remarks: Information given is based on data obtained from similar substances.		
Ecot	oxicology Assessment				
Acut	e aquatic toxicity	:	This product has no known ecotoxicological effects.		
Chro	nic aquatic toxicity	:	May cause long	a lasting harmful effects to aquatic life.	
12.2 Pers	istence and degradabi	lity			
<u>Com</u>	ponents:				
di-te	rt-butyl 3,3,5-trimethylc	ycl	ohexylidene dip	eroxide:	
Biode	egradability	:	Result: Biodegradable Method: OECD Test Guideline 301D		
Hydr	ocarbons, C4, 1,3-buta	die	ne-free, polyme	rised., triisobutylene fraction, hydrogenated	
Biode	egradability	:	Result: Not read	dily biodegradable.	
12.3 Bioa	ccumulative potential				
<u>Com</u>	ponents:				
di-te	rt-butyl 3,3,5-trimethylc	ycl	ohexylidene dip	eroxide:	
Bioad	ccumulation	:	Bioconcentratio	n factor (BCF): 443	
Parti	tion coefficient: n-	:	log Pow: 6,53		
			15 / 21		

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octar	ol/water		
Partit	ocarbons, C4, 1,3-but ion coefficient: n- ol/water	: log Pow: 5,94	erised., triisobutylene fraction, hydrogenated: - 6,16 (20 °C) value is calculated
	<b>ility in soil</b> ata available		
12.5 Resu	Its of PBT and vPvB	assessment	
<u>Prod</u>	uct:		
Asse	ssment	to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
12.6 Othe	r adverse effects		
<u>Prod</u>	uct:		
Addit matic	ional ecological infor- n	unprofessional	ntal hazard cannot be excluded in the event of handling or disposal. Ing lasting harmful effects to aquatic life.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Dispose of wastes in an approved waste disposal 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.

### **SECTION 14: Transport information**

### 14.1 UN number

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	ADR		:	UN 3103	
	RID		:	UN 3103	
	IMDG		:	UN 3103	
	ΙΑΤΑ		:	UN 3103	
14.2	UN pr	oper shipping name			
	ADR		:		OXIDE TYPE C, LIQUID YLPEROXY)-3,3,5- CLOHEXANE)
	RID		:		OXIDE TYPE C, LIQUID YLPEROXY)-3,3,5- CLOHEXANE)
	IMDG		:		OXIDE TYPE C, LIQUID YLPEROXY)-3,3,5- CLOHEXANE)
	ΙΑΤΑ		:	0 1	e type C, liquid lperoxy)-3,3,5-trimethylcyclohexane)
14.3	Trans	port hazard class(es)			
	ADR		:	5.2	
	RID		:	5.2	
	IMDG		:	5.2	
	ΙΑΤΑ		:	5.2	
14.4	Packi	ng group			
	Classif Labels	g group ication Code restriction code	: : :	Not assigned by P1 5.2 (D)	regulation
	Classif	g group ication Code I Identification Number	::	Not assigned by P1 539 5.2	regulation
	IMDG Packin Labels EmS C	g group Code	: :	Not assigned by 5.2 F-J, S-R	regulation
		<b>Cargo)</b> g instruction (cargo	:	570	

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



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aircraft) Packing group Labels	:	Not assigned by regulation Organic Peroxides, Keep Away From Heat
IATA (Passenger) Packing instruction (passen- ger aircraft)	:	570
Packing group Labels	:	Not assigned by regulation Organic Peroxides, Keep Away From Heat

### 14.5 Environmental hazards

ADR Environmentally	hazardous	:	no
<b>RID</b> Environmentally	hazardous	:	no
IMDG Marine pollutant		:	no

### 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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

KKDIK (30105 (Bis)) - Restriction placing on the market and use of substances, mixtures and articles	certain dangerous	Conditions of restr lowing entries sho Number on list 3	riction for the fol- uld be considered:
Regulation on Persistent Organic 30595)	Pollutants (Number :	Not applicable	
Regulation on prevention of majo	or industrial accidents. Reg n	umber 30702 Quantity 1	Quantity 2
P6b	SELF-REACTIVE	50 t	Quantity 2 200 t
	SUBSTANCES AND		
	MIXTURES and ORGANIC		
	PEROXIDES		

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



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### **Other regulations:**

Gefahrgruppe nach DGUV 13 Vorschrift 13 (bisher BGV B4): lb, S+ (German regulatory requirements)

Produkt unterliegt dem Sprengstoffgesetz (SprengG; Stoffgruppe C). (German regulatory requirements)

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I". Regulation on Classification, Labelling and Packaging of Substances and Mixtures. Dated 11 December 2013, Numbered 28848 (Bis) Ministry of Environment and Forestry.

The components of this product are reported in the following inventories:				
TCSI (TW)	:	On the inventory, or in compliance with the inventory		
DSL (CA)	:	All components of this product are on the Canadian DSL		
PICCS (PH)	:	On the inventory, or in compliance with the inventory		
IECSC (CN)	:	On the inventory, or in compliance with the inventory		

### **SECTION 16: Other information**

may still contain product residues.
Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
Classification of the mixture: Classification procedure:
Org. Perox. C H242 Based on product data or assessmen
Asp. Tox. 1 H304 Calculation method
Aquatic Chronic 4 H413 Calculation method

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



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### Full text of H-Statements

H226 :	Flammable liquid and vapour.
H241 :	Heating may cause a fire or explosion.
H304 :	May be fatal if swallowed and enters airways.
H413 :	May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Flam. Liq.	:	Flammable liquids
Org. Perox.	:	Organic peroxides

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: 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; 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

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

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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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