according to the OSHA Hazard Communication Standard



NOROX®600-CL2

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2024
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SECTION 1. IDENTIFICATION

Trade name	:	NOROX [®] 600-CL2				
Manufacturer or supplier's o	deta	ils				
Company name of supplier	:	United Initiators, Inc.				
Address	:	555 Garden Street Elyria OH 44035 USA				
Telephone	:	+1-440-323-3112				
Telefax	:	+1-440-323-2659				
Emergency telephone	:	CHEMTREC US (24h): CHEMTREC WORLD (24h):	+1-800-424-9300 +1-703-527-3887			
E-mail address of person responsible for the SDS	:	cs-initiators.nafta@united-in.com				
Recommended use of the chemical and restrictions on use						

Recommended use : polymerization initiators

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Organic peroxides	: Type C
Skin sensitization	: Category 1
Short-term (acute) aquatic hazard	: Category 3
Long-term (chronic) aquatic hazard	: Category 3
GHS label elements Hazard pictograms	

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Hazard Statements		H317 May caus	nay cause a fire. se an allergic skin reaction. o aquatic life with long lasting effects.
Precautionary Statements		No smoking. P220 Keep/Sto P234 Keep only P261 Avoid bre P272 Contamin the workplace. P273 Avoid rele	ay from heat/ sparks/ open flames/ hot surfaces. re away from clothing/ combustible materials. / in original container. athing dust. lated work clothing must not be allowed out of ease to the environment. tective gloves/ eye protection/ face protection.
		P333 + P313 If attention.	ON SKIN: Wash with plenty of soap and water. skin irritation or rash occurs: Get medical advice/ ntaminated clothing before reuse.
		Storage: P410 Protect P411 + P235 68 °F. Keep co	from sunlight. Store at temperatures not exceeding < 20 °C/ <
		Disposal:	of contents/ container to an approved waste dis-
Othe	r hazards		

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
		TVII/(COLO

Chemical nature : Organic Peroxide Solid

Components

Chemical name	CAS-No.	Concentration (% w/w)
Di(4-tert-butylcyclohexyl) peroxydi- carbonate	15520-11-3	>= 65 - < 70
Dilauroyl peroxide	105-74-8	>= 30 - < 35

Actual concentration is withheld as a trade secret

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SECTION 4. 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 material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Administer oxygen if breathing is difficult or cyanosis is observed. If breathed in, move person into fresh air. If not breathing, give artificial respiration. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If symptoms persist, call a physician. 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	:	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.
If swallowed	:	Call a physician immediately. Keep respiratory tract clear. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. May cause an allergic skin reaction. sensitizing effects
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

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S	Suitable extinguishing media		:	Water spray jet Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	High volume wate	r jet
	Specific ighting	hazards during fire	:	Possible emission lead to a dangero Avoid confinemen Contact with incor temperatures exce	npatible materials or exposure to eeding SADT may result in a self- mposition reaction with release of flammable
				Do not allow run-o courses. Vapors may form The product will fl water.	s violently. le over considerable distance. off from fire fighting to enter drains or water explosive mixtures with air. oat on water and can be reignited on surface iners exposed to fire with water spray.
	Specific ods	extinguishing meth-	:	fire. Remove undamaç 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	:	circumstances and Use a water spray Collect contamina must not be disch Fire residues and	measures that are appropriate to local d the surrounding environment. v to cool fully closed containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
	Special or fire-f	protective equipment ighters	:	Wear self-contain necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protec- tive equipment and emer- gency procedures		:	Follow safe handling advice and personal protective equipment recommendations. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".		
E	Environmental precautions		:	Prevent further lea	om entering drains. akage or spillage if safe to do so. aminates rivers and lakes or drains inform ties.
-	Methods and materials for containment and cleaning up		:	decomposition at a Clear spills immed Suppress (knock o jet. To clean the floor material, use plen Soak up with inert Isolate waste and Non-sparking tools Local or national r disposal of this ma employed in the cl	liately. down) gases/vapors/mists with a water spray and all objects contaminated by this ty of water. absorbent material. do not reuse.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on protection against fire and explosion	:	 Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	Open drum carefully as content may be under pressure. Avoid formation of respirable particles. Protect from contamination.

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	Conditions for safe storage		:	Store in cool place Keep in a well-ver Contamination ma closed containers Observe label pre Store in accordan Avoid impurities (Electrical installat the technological	ightly closed in a cool, well-ventilated place. e. ntilated place. ay result in dangerous pressure increases - may rupture. ecautions. ice with the particular national regulations. e.g. rust, dust, ash), risk of decomposition. ions / working materials must comply with safety standards. are opened must be carefully resealed and	
	Materia	als to avoid	:		combustible materials. strong acids, bases, heavy metal salts and bstances.	
	Recom peratur	mended storage tem- e	:	< 20 °C		
				< 68 °F		
	Further age sta	information on stor- bility	:	Stable under reco	ommended storage conditions.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters				
inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust)			

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		Basis: OSHA Z-	3
		15 mg/m3 Value type (Forr Basis: OSHA Z-	n of exposure): TWA (total dust) 3
		5 mg/m3 Value type (Forr Basis: OSHA Z-	n of exposure): TWA (respirable fraction) 3
			es per cubic foot n of exposure): TWA (respirable fraction) 3
Dust, ticula	nuisance dust and par- tes	10 mg/m3 Value type (Forr Basis: CAL PEL	n of exposure): PEL (Total dust)
		5 mg/m3 Value type (Forr Basis: CAL PEL	n of exposure): PEL (respirable dust fraction)
Conta	ains no substances with	occupational exposu	re limit values.
Engi	neering measures	: Minimize workp	lace exposure concentrations.
Pers	onal protective equipm		
Resp	iratory protection	: In the case of d approved filter.	ust or aerosol formation use respirator with an
Fi	lter type	: Filter type P	
		Use NIOSH ap	proved respiratory protection.
	protection		
	aterial	: butyl-rubber	
	reak through time love thickness	: 480 min : 0.47 mm	
М	aterial	: Nitrile rubber	
	reak through time	: 480 min	
G	love thickness	: 0.40 mm	
R	emarks	: The data about	break through time/strength of material are

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		material has to protective glov chemicals dep hazardous sub For special ap resistance to o gloves with the	es! The exact break through time/strength of b be obtained from the producer of the re. Choose gloves to protect hands against rending on the concentration and quantity of the ostance and specific to place of work. oplications, we recommend clarifying the chemicals of the aforementioned protective e glove manufacturer. Wash hands before the end of workday.
Eye p	protection	to the worksta Please follow a selecting prote Always wear e eye contact wi Tightly fitting s Please wear s	all applicable local/national requirements when ective measures for a specific workplace. eve protection when the potential for inadvertent th the product cannot be excluded.
Skin a	and body protection	resistance dat potential.	riate protective clothing based on chemical a and an assessment of the local exposure y garments should be used based upon the
		task being per disposable sui Wear as appro	formed (e.g., sleevelets, apron, gauntlets, ts) to avoid exposed skin surfaces.
Prote	ctive measures		otective equipment must be selected according ration and amount of the dangerous substance workplace.
Hygie	ene measures	Keep away fro When using do When using do	with skin, eyes and clothing. m food and drink. o not eat or drink. o not smoke. efore breaks and immediately after handling

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	white
Odor	:	characteristic

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	Odor T	hreshold	:	not determined			
	рН		:	substance/mixtur	substance/mixture is non-soluble (in water)		
	Melting	point/freezing point	:	82 °C Decomposes bef	ore melting.		
	Initial b range	oiling point and boiling	:	Decomposition: Decomposition	Decomposes below the boiling point.		
	Flash p	oint	:	Not applicable			
	Evapor	ation rate	:	Not applicable			
	Flamma	ability (solid, gas)	:	Organic peroxide			
	Self-igr	iition	:	The substance or	r mixture is not classified as pyrophoric.		
		explosion limit / Upper bility limit	:	Upper explosion No data available			
		explosion limit / Lower bility limit	:	Lower explosion No data available			
	Vapor p	pressure	:	0.01 Pa (20 °C)			
	Relative	e vapor density	:	Not applicable			
	Relative	e density	:	not determined			
	Density	,	:	1.1025 g/cm3 (20) °C)		
	Bulk de	ensity	:	0.5 g/cm3			
	Solubili Wat	ty(ies) er solubility	:	insoluble			
	Solu	bility in other solvents	:	No data available)		
	Partitio octanol	n coefficient: n- /water	:	No data available			
	Autoigr	ition temperature	:	not determined			
		celerating decomposi- nperature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.		

Viscosity

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Viscosity, dynamic		: Not applica	ble			
Viscosity, kinematic		: Not applica	ble			
Explosive properties		: Not explosi	: Not explosive Avoid dust formation.			
Oxidizing properties			The substance or mixture is not classified as oxidizing. Organic peroxide			
Self-	heating substances	: The substa	nce or mixture is not classified as self heating.			
	cle characteristics cle size	: not determ	ined			
Parti	cle Size Distribution	: No data av	ailable			

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Heating may cause a fire.
		Stable under recommended storage conditions. Heating may cause a fire or explosion.
Chemical stability	:	Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.
		Stable under recommended storage conditions. No decomposition if stored normally.
Possibility of hazardous reac- tions	:	Dust may form explosive mixture in air.
Conditions to avoid	:	Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
Hazardous decomposition products	:	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

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<u>Produ</u> Acute	<u>uct:</u> oral toxicity		estimate: > 5,000 mg/kg ulation method
<u>Comp</u>	oonents:		
Di(4-t	ert-butylcyclohexyl)	peroxydicarbonate	:
Acute	oral toxicity		D Test Guideline 401 The component/mixture is minimally toxic afte
Acute	inhalation toxicity	: Remarks: No	data available
Acute	dermal toxicity	: Remarks: No	data available
Dilau	royl peroxide:		
Acute	oral toxicity	icity	
Acute	inhalation toxicity	Method: Expe	e: 4 h lere: dust/mist
Acute	dermal toxicity	toxicity	
Skin	corrosion/irritation		
Based	d on available data, th	e classification criter	a are not met.
<u>Prod</u>			
Rema	arks	: May cause sł	in irritation in susceptible persons.
<u>Comp</u>	oonents:		
Di(4-t	ert-butylcyclohexyl)	peroxydicarbonate	:
Speci Metho Resul	bd	: Rabbit : OECD Test G : No skin irritat	

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ersion 3	Revision Date: 11/12/2024	SDS Number:Date of last issue: 11/12/202460000000352Date of first issue: 11/16/2016
Rema	arks	: May cause skin irritation in susceptible persons.
Dilau	royl peroxide:	
Speci		: Rabbit
Metho		: OECD Test Guideline 404
Resu	It	: No skin irritation
Serio	us eye damage/eye	irritation
Based	d on available data, th	he classification criteria are not met.
Prod	uct:	
Rema	arks	: Product dust may be irritating to eyes, skin and respirat system.
<u>Com</u>	oonents:	
Di(4-t	ert-butylcyclohexyl) peroxydicarbonate:
Speci		: Rabbit
Resu		: No eye irritation
Metho	bd	: OECD Test Guideline 405
Rema	arks	: Product dust may be irritating to eyes, skin and respirat system.
Dilau	royl peroxide:	
Speci	es	: Rabbit
Resu		: No eye irritation
Metho	bd	: OECD Test Guideline 405
Resp	iratory or skin sens	itization
Skin	sensitization	
May o	ause an allergic skin	reaction.
Resp	iratory sensitization	1
Not cl	lassified due to lack o	of data.
Prod	uct:	
Rema	arks	: Causes sensitization.
<u>Com</u>	oonents:	
Di(4-t	ert-butylcyclohexyl) peroxydicarbonate:
Speci		: Mouse
Metho	bd	: OECD Test Guideline 429
Resu	lt	: May cause sensitization by skin contact.
Rema	arks	: Causes sensitization.
		12/21

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Dilau Speci Metho Resul	bd	 Guinea pig OECD Test Guideline 406 Does not cause skin sensitization. 		
Not cl	a cell mutagenicity assified due to lack a	f data.		
		norevediaarheneta		
•	toxicity in vitro	 peroxydicarbonate: Method: OECD Test Guideline 471 Result: negative 		
		Method: OECD Test Guideline 476 Result: negative		
		Method: OECD Test Guideline 487 Result: negative		
Geno	toxicity in vivo	: Remarks: No data available		
Dilau	royl peroxide:			
	toxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative		
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative		
		Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative		
Geno	toxicity in vivo	: Remarks: No data available		
	nogenicity assified due to lack	f data.		
Com	oonents:			
Di(4-t Rema		peroxydicarbonate: : This information is not available.		
IARC		No ingredient of this product present at levels greater than or equal to 0.1% i identified as probable, possible or confirmed human carcinogen by IARC.		
ОСП		port of this product present at lovels greater than or equal to 0.1		

OSHA No component of this product present at levels greater than or equal to 0.1% is

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		on OSHA's lis	st of	regulated carcinog	jens.
	NTP				t at levels greater than or equal to 0.1% is carcinogen by NTP.
	-	ductive toxicity ssified due to lack of d	ata.		
	Compo	onents:			
	Di(4-te	rt-butylcyclohexyl) p	erox	kydicarbonate:	
	Effects	on fertility	:	Remarks: This inf	ormation is not available.
	Effects	on fetal development	:	Remarks: This inf	ormation is not available.
	Dilauro	oyl peroxide:			
		on fetal development	:		Maternal: NOAEL: 1,000 mg/kg body weight est Guideline 414
		single exposure ssified due to lack of d	ata.		
	Compo	onents:			
	Di(4-te	rt-butylcyclohexyl) p	erox	kydicarbonate:	
	Remar	ks	:	No data available	
		r epeated exposure ssified due to lack of d	ata.		
	Repea	ted dose toxicity			
	Compo	onents:			
	Di(4-te	rt-butylcyclohexyl) p	ero	kydicarbonate:	
	Specie NOAEL LOAEL Applica	s		Rat 500 mg/kg 1,000 mg/kg Oral 28 d OECD Test Guide	eline 407
	Dilauro	oyl peroxide:			
	Specie NOAEL Applica	s - ition Route ure time		Rat 1,000 mg/kg Oral 28 d OECD Test Guide	eline 407

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Aspiration toxicity

Not classified due to lack of data.

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

No data available

Further information

Product:

Remarks

: No data available

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate: Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 704 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 42 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 39 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Harmful to aquatic life.
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
Dilauroyl peroxide:		
Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility.

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	ity to daphnia and other tic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 72 Method: OECD T	
Toxic	ity to microorganisms	:	EC50: > 1,000 mg Exposure time: 0. Method: OECD To Remarks: No toxio	5 h
Persi	istence and degradabil	ity		
Com	ponents:			
	tert-butylcyclohexyl) pe	ero	-	
Biode	egradability	:	Result: Not readil Method: OECD T	y biodegradable. est Guideline 301B
Dilau	ıroyl peroxide:			
	egradability	:	Result: Readily bi Method: OECD T	odegradable. est Guideline 301D
Bioa	ccumulative potential			
Com	ponents:			
-	tert-butylcyclohexyl) per comulation	ero: :	•	factor (BCF): 2,926
	ion coefficient: n- nol/water	:	log Pow: 8.34 Remarks: Calcula	tion
Partit	iroyl peroxide: ion coefficient: n- nol/water	:	log Pow: > 6.5	

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	lity in soil ata available			
Othe	r adverse effects			
Produ	uct:			
Ozon	e-Depletion Potential	:	tection of Strato Substances Remarks: This tured with a Cla	CFR Protection of Environment; Part 82 Pro- ospheric Ozone - CAA Section 602 Class I product neither contains, nor was manufac- ss I or Class II ODS as defined by the U.S. ection 602 (40 CFR 82, Subpt. A, App.A + B).
Additi matio	onal ecological infor- n	:	unprofessional	al hazard cannot be excluded in the event of handling or disposal. handling with long lasting effects.
<u>Com</u>	oonents:			
Di(4-t	tert-butylcyclohexyl) p	bero	ydicarbonate:	

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 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.
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. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 3114
Proper shipping name	:	ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE

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Label Envir	ng group	CONTROLLEI (DI-(4-tert-BU : 5.2 : Not assigned I : 5.2 : no	TYLCYCLOHEXYL) PEROXYDICARBONATE)
	ermitted for transport		
UN ni Prope Class Packi Label EmS Marin	ng group s Code e pollutant	CONTROLLE (DI-(4-tert-BU 5.2 Not assigned I 5.2 F-F, S-R no	TYLCYCLOHEXYL)PEROXYDICARBONATE)
	sport in bulk according pplicable for product as	-	RPOL 73/78 and the IBC Code
	estic regulation	ooppiloo.	

49 CFR

UN/ID/NA number	: UN 3114
Proper shipping name	: Organic peroxide type C, solid, temperature controlled (Di-(4-tert-butylcyclohexyl)peroxydicarbonate, <=100%)
Class	: 5.2
Packing group	: Not assigned by regulation
Labels	: ORGANIC PEROXIDE
ERG Code	: 148
Marine pollutant	: no

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.

Additional advice

Temperature controlled tra	nsp	ort.:
Control temperature	:	30 °C
Emergency temperature	:	35 °C

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Organic peroxides Respiratory or skin sensitization
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

International Regulations

Gefahrgruppe nach TRGS 741: Ib (German regulatory requirements)

The ingredients 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
ENCS (JP)	:	On the inventory, or in compliance with the inventory
ISHL (JP)	:	On the inventory, or in compliance with the inventory

according to the OSHA Hazard Communication Standard



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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 invento	On the inventory, or in compliance with the inventory		

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

CAL PEL	: California permissible exposure limits for chemical contami- nants (Title 8, Article 107)
CAL PEL / PEL	: Permissible exposure limit
OSHA Z-3	: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-
	eral Dusts

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act;

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REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

This material 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 container.

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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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.

US / Z8