CAROAT®



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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAROAT[®]

Other means of identification : None

Recommended use of the chemical and restrictions on use Recommended use : Oxidizing agents

Manufacturer or supplier's details

Company	:	United Initiators (Shanghai) Co., Ltd
Address	:	Room 501, Bldg. 1, No. 1 Shangda Road Shanghai, China, 200444
Telephone	:	+86 21 61172758
Emergency telephone number	:	+86 21 61172758
E-mail address	:	cs-initiators.cn@united-in.com

2. HAZARDS IDENTIFICATION

GHS Classification		
Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 1B
Serious eye damage/eye irri- tation	:	Category 1
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	

Signal word

: Danger

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Hazar	rd statements	H401 Toxic to	severe skin burns and eye damage.
Preca	utionary statements	P270 Do not e P273 Avoid re	kin thoroughly after handling. eat, drink or smoke when using this product. lease to the environment. otective gloves/ protective clothing/ eye protec-
		CENTER/ doc P301 + P330 induce vomitin P303 + P361 Iy all contamin P304 + P340 and keep com P0ISON CEN P305 + P351 water for seve and easy to do CENTER/ doc	 + P353 IF ON SKIN (or hair): Take off immediate- ated clothing. Rinse skin with water/ shower. + P310 IF INHALED: Remove person to fresh air ifortable for breathing. Immediately call a ITER/ doctor. + P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present o. Continue rinsing. Immediately call a POISON
		Storage: P405 Store	locked up.
		Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste
Othe	r hazards which do n	ot result in classifica	tion

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	crystalline Solid

Components

Hazardous ingredients	CAS-No.	Concentration (% w/w)
pentapotassium bis(peroxymonosulphate)	70693-62-8	< 100

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bis(sı	ulphate)			
Dipot	assium peroxodisulph	ate	7727-21-1	< 3

IRST 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.
First aid measures for dif	ferent exposure routes
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. Respiratory tract burning possible if aerosols are inhaled. 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. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with diffic ty. In case of contact, immediately flush skin with plenty of wate 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 sue damage and blindness. In the case of contact with eyes, rinse immediately with pler 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.
If swallowed	: Call a physician immediately.

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				Rinse mouth thoro Keep respiratory t Do NOT induce vo If symptoms persi	ract clear.
а		portant symptoms ects, both acute and	:	Harmful if swallow Causes serious ey Causes severe bu	ye damage.
Ρ	Protecti	on of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing	
N	Notes to	o physician	:	Treat symptomation	cally and supportively.
5. FIR	REFIGH	ITING MEASURES			
S	Suitable	e extinguishing media	:	Foam Water spray jet Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Jnsuita nedia	ble extinguishing	:	High volume wate	r jet
	Specific ghting	hazards during fire-	:	Hazardous decom conditions (see se	position products may be formed under fire ection 10).
				Do not allow run-c courses.	off from fire fighting to enter drains or water
	Specific ods	extinguishing meth-	:	cumstances and t Collect contamina must not be disch. Fire residues and	measures that are appropriate to local cir- he surrounding environment. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
				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.
	Special or firefiç	protective equipment ghters	:	Wear self-containe essary. Use personal prot	ed breathing apparatus for firefighting if nec- ective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Follow safe handling advice and personal protective equip-

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	equipment and emer- y procedures		ment recommenda Use personal prot Avoid dust formati Avoid breathing d Treat recovered n considerations".	ective equipment. on.
Envir	ronmental precautions	:	Prevent further lea	om entering drains. akage or spillage if safe to do so. taminates rivers and lakes or drains inform ties.
	ods and materials for ainment and cleaning up	:	al, use plenty of w Soak up with inert Local or national posal of this mate employed in the c	and all objects contaminated by this materi-

7. HANDLING AND STORAGE

Handling		
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on protection against fire and explosion	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	 Avoid formation of respirable particles. Do not swallow. Do not breathe vapours/dust. Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms. Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling. For personal protection see section 8.
Storage		
Conditions for safe storage	:	Keep in a dry place. Observe label precautions. Store in accordance with the particular national regulations. 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.

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N	Materia	ls to avoid	:	Never allow produ age.	ct to get in contact with water during stor-
	Recom	mended storage tem- e	:	< 30 °C	
-	Further age sta	information on stor- bility	:	For quality reason	S
				No decomposition	if stored normally.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Dipotassium peroxodisulphate	7727-21-1	TWA	0.1 mg/m3 (Persulphate)	ACGIH

Biological occupational exposure limits

Contains no substances with biological exposure indices.

Engineering measures : Minimize workplace exposure concentrations.

: Filter type P

Personal protective equipment

Respiratory protection	:	In the case of dust or aerosol formation use respirator with an
		approved filter.

Hand protection Material Break through time	:	Nitrile rubber 480 min
Glove thickness		0.40 mm
Material Break through time	:	butyl-rubber 480 min

Break through time	:	480 min
Glove thickness	:	0.47 mm

Remarks

Filter type

: 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 protective glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special ap-



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		cals of the	ve recommend clarifying the resistance to chemi- aforementioned protective gloves with the glove er. Wash hands before breaks and at the end of
Eye p	protection	to the works Please follo selecting pr Always wea eye contact Tightly fittin Please wea	eyewash stations and safety showers are close station location. w all applicable local/national requirements when otective measures for a specific workplace. If eye protection when the potential for inadvertent with the product cannot be excluded. g safety goggles r suitable protective goggles. Also wear face pro- ere is a splash hazard.
Skin :	and body protection	resistance of potential. Additional b task being p posable sui Wear as ap	opriate protective clothing based on chemical data and an assessment of the local exposure body garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, dis- ts) to avoid exposed skin surfaces. propriate: dant antistatic protective clothing.
Prote	ctive measures	to the conc	protective equipment must be selected according entration and amount of the dangerous substance fic workplace.
Hygie	ne measures	Keep away When using When using	act with skin, eyes and clothing. from food and drink. g do not eat or drink. g do not smoke. s before breaks and immediately after handling

9. PHYSICAL AND CHEMICAL	PROP	ERTIES
Appearance	:	solid
Colour	:	white
Odour	:	odourless
Odour Threshold	:	not determined



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рH		:	2.3 Concentration: 10) g/l	
Me	elting point/range	:	Decomposition: I	Decomposes below the melting point.	
Bo	iling point/boiling range	:	not determined		
Fla	ash point	:	Not applicable		
Ev	aporation rate	:	No data available		
Fla	ammability (solid, gas)	:	does not ignite		
Se	If-ignition	:	The substance of	r mixture is not classified as pyrophoric.	
	per explosion limit / Upper mmability limit	:	Upper explosion No data available		
	wer explosion limit / Lower mmability limit	:	Lower explosion No data available		
Va	pour pressure	:	< 0.001 hPa (25	°C)	
Re	lative vapour density	:	not determined		
Re	lative density	:	not determined		
De	nsity	:	ca. 2.35 g/cm3 (2	20 °C)	
Bu	lk density	:	ca. 1,100 kg/m3		
Sc	lubility(ies) Water solubility	:	ca. 300 g/l solubl	e (20 °C)	
	rtition coefficient: n- tanol/water	:	Not applicable		
Au	to-ignition temperature	:	not determined		
	If-Accelerating decomposi- n temperature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.	
Vis	scosity Viscosity, dynamic	:	Not applicable		
	Viscosity, kinematic	:	: Not applicable		

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Explo	sive properties		Not explosive	
	zing properties	:	No oxidising effe	ct.
Self-h	eating substances	:	The substance o	r mixture is not classified as self heating.
Partic	cle size	:	not determined	
Partic	le Size Distribution	:		on: volume distribution chnique: laser diffraction

10. STABILITY AND REACTIVITY		
Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions. No decomposition if stored normally.
Possibility of hazardous reac- tions	:	Even small amounts of moisture or impurities can noticably reduce the self-accelerating decomposition temperature (SADT). Avoid moisture.
Conditions to avoid	:	Protect from contamination. Protect from moisture.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents Avoid impurities (e.g. rust, dust, ash), risk of decomposition.
		Not applicable
Hazardous decomposition products	:	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure	:	None known.
Acute toxicity Harmful if swallowed.		
Product: Acute oral toxicity	:	LD50 (Rat): 500 mg/kg Method: OECD Test Guideline 423

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Acute	inhalation toxicity	Method: OE Assessmen tion toxicity	me: 4 [°] h ohere: dust/mist ECD Test Guideline 403 t: The substance or mixture has no acute inhala-		
Acute	dermal toxicity		> 5,000 mg/kg CD Test Guideline 402		
<u>Comp</u>	onents:				
penta	potassium bis(pero)	(ymonosulphate)	bis(sulphate):		
Acute	oral toxicity	: LD50 (Rat): Method: OE	500 mg/kg CD Test Guideline 423		
Acute	inhalation toxicity	Exposure ti Test atmos Method: OE Assessmen tion toxicity	LC0 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inha tion toxicity Remarks: Expert judgement		
Acute	dermal toxicity		> 5,000 mg/kg CD Test Guideline 402		
Dipota	assium peroxodisul	phate:			
Acute	oral toxicity	Method: OE	male): 742 mg/kg CD Test Guideline 401 t: The component/mixture is moderately toxic aft tion.		
Acute	inhalation toxicity	Exposure ti Test atmosj Method: OE Assessmen tion toxicity	LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhal tion toxicity Remarks: Expert judgement		
Acute	dermal toxicity	Assessmen toxicity	> 2,000 mg/kg t: The substance or mixture has no acute dermal expert judgement		

Skin corrosion/irritation

Causes severe burns.



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Produ			
Speci		: Rabbit	
Metho		: OECD Test C	
Resul	t	: Causes burns	5.
Rema	ırks	: Extremely co	rrosive and destructive to tissue.
<u>Comp</u>	oonents:		
penta	potassium bis(pero	(ymonosulphate) b	is(sulphate):
Speci	es	: Rabbit	
Metho		: OECD Test C	Guideline 404
Resul	t	: Causes burns	3.
Dipot	assium peroxodisul	phate:	
Speci	-	: Rabbit	
Metho		: OECD Test C	Guideline 404
Resul		: Skin irritation	
Serio	us eye damage/eye	irritation	
	es serious eye damag		
Produ		0.	
		D-LL:	
Speci Resul		: Rabbit	s damage to eyes.
Metho		: OECD Test (
Rema	ırks	: May cause in	eversible eye damage.
<u>Comp</u>	oonents:		
	potassium bis(pero		is(sulphate):
Speci		: Rabbit	
Resul			is damage to eyes.
Metho	Dd	: OECD Test C	Suideline 405
Dipot	assium peroxodisul	phate:	
Speci		: Rabbit	
Resul		: Eye irritation	
Metho	od	: OECD Test C	Guideline 405
Respi	iratory or skin sensit	isation	
Skin	sensitisation		
-	assified based on ava	ilable information.	
Respi	iratory sensitisation		
Not al	assified based on ava	ilable information	



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	Produ	<u>ct:</u>			
	Exposu	ure routes	:	Skin contact	
	Specie		:	Guinea pig	
	Method		:	OECD Test Gu	deline 406
	Result		:	Did not cause s	ensitisation on laboratory animals.
				Inhalation	
			÷	Expert judgeme	nt
			:		respiratory sensitisation.
	Remar	ks	:	Expert judgeme	
	Test Ty	/pe	:	Local lymph no	de assay (LLNA)
			:	Mouse	
			:	OECD Test Gu	deline 442B
			:	Does not cause	skin sensitisation.
	GLP		:	yes	
	Remar	ks	:	Information give	n is based on tests on the mixture itself.
	Assess	sment	:	Did not cause s	ensitisation on laboratory animals.
	Compo	onents:			
	pentar	ootassium bis(pero)	vmoi	nosulphate) bis	sulphate):
		ure routes		Skin contact	
	Specie			Guinea pig	
	Method			OECD Test Gu	deline 406
	Result	-	:		ensitisation on laboratory animals.
	Test Ty	/pe	:	Local lymph no	de assay (LLNA)
	Specie		:	Mouse	
	Method	Ł	:	OECD Test Gu	deline 442B
	Result		:	Did not cause s	ensitisation on laboratory animals.
	Dipota	ssium peroxodisul	phate	:	
	-	ure routes		Skin contact	
	Specie			Guinea pig	
	Method			OECD Test Gu	deline 406
	Result		:		sitisation by skin contact.
	Exposi	ure routes	:	inhalation (dust	/mist/fume)
	Result				sitisation by inhalation.
	Remarl	ks	:	Expert judgeme	
	Chroni	ic toxicity			
	Germ	cell mutagenicity			
		ssified based on ava	ilable	information.	
	Produ	ct:			
		oxicity in vitro		Method: OECD	Test Guideline 473
	Jenol		•	Result: positive	

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		Method: OECE Result: positive) Test Guideline 476
		Method: OECI Result: negativ	0 Test Guideline 471 e
Geno	toxicity in vivo	Species: Mous Application Ro) Test Guideline 474
		Species: Rat (Application Ro	ute: Oral) Test Guideline 489
<u>Com</u>	oonents:		
penta	apotassium bis(pero	xymonosulphate) bis	s(sulphate):
Geno	toxicity in vitro		ation: with and without metabolic activation Test Guideline 471
			<i>i</i> tro mammalian cell gene mutation test) Test Guideline 476 cal
			romosome aberration test in vitro D Test Guideline 473 e
			<i>i</i> tro mammalian cell gene mutation test D Test Guideline 490 e
Geno	toxicity in vivo	Species: Mous Application Ro	D Test Guideline 474
		Species: Rat (Application Ro	ute: Oral D Test Guideline 489

Dipotassium peroxodisulphate:



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Geno	toxicity in vitro	Result: neg	Bacterial reverse mutation assay (AMES) ative Based on data from similar materials
Geno	toxicity in vivo	cytogenetic Species: M Application Result: neg	ouse Route: Intraperitoneal injection
	i nogenicity lassified based on av	ailable information.	
Prod	uct:		
Rema	arks	: This informa	ation is not available.
<u>Com</u>	ponents:		
penta	apotassium bis(pero	xymonosulphate)	bis(sulphate):
Rema	arks	: This informa	ation is not available.
Dipot	assium peroxodisu	phate:	
Spec	ies	: Mouse	
	cation Route	: Skin contac	t
	sure time	: 52 weeks	
Metho Resu		: OECD Test : negative	Guideline 451
Repr	oductive toxicity		
Not c	lassified based on ava	ailable information.	
<u>Prod</u>	uct:		
<u>Com</u>	ponents:		
penta	apotassium bis(pero	xymonosulphate)	bis(sulphate):
-	tassium peroxodisu	-	
Effect	s on fertility		Route: Ingestion ECD Test Guideline 421
Effect	s on foetal develop-	: Species: Ra	at
ment		-	Route: Ingestion



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STOT	- single exposure			
	assified based on ava	ilable information	n.	
<u>Produ</u>	uct:			
Asses	ssment		stance or mixture is not classified as spe xicant, single exposure.	ecific targe
<u>Comp</u>	oonents:			
Dipot	assium peroxodisul	phate:		
Asses	ssment	: May cau	se respiratory irritation.	
	- repeated exposur		n	
	ated dose toxicity		"1.	
<u>Produ</u>	uct:			
Speci LOAE Applic	es L cation Route sure time od	: > 1,000 : Oral : 28 d : OECD 1	e and female mg/kg est Guideline 407 e toxicity	
	L cation Route sure time od	: 600 mg/ : Oral : 90 d : OECD 1	e and female kg rest Guideline 408 nic toxicity	
<u>Comp</u>	oonents:			
penta	potassium bis(pero	xymonosulpha	e) bis(sulphate):	
Speci LOAE Applic	es L cation Route sure time od	: Rat, ma : > 1,000 : Oral : 28 d : OECD 1	e and female	
	L cation Route sure time od	: 600 mg/ : Oral : 90 d : OECD 1	e and female kg rest Guideline 408 nic toxicity	

Dipotassium peroxodisulphate:

: Rat



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	EL cation Route sure time		1,000 mg/kg 3,000 mg/kg Ingestion 90 d OECD Test Guide	eline 408
•	ation toxicity lassified based on availa	ble	information	
	er information	0.0		
<u>Prod</u> Rema		:	No data available	
12. ECOL	OGICAL INFORMATION	1		
Ecoto	oxicity			
Prod	uct:			
Toxic	ity to fish	:	NOEC (Oncorhyn Exposure time: 96 Method: OECD Te	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic s	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0.5 mg/l Exposure time: 37	7 d
Toxic	ity to microorganisms	:	EC50 (Bacteria): Exposure time: 3 Method: OECD Te	h
Ecoto	oxicology Assessment			
Chror	nic aquatic toxicity	:	Harmful to aquation	c life with long lasting effects.
<u>Com</u>	ponents:			
penta	apotassium bis(peroxy	mor	nosulphate) bis(su	Ilphate):
Тохіс	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
Toxic	ity to daphnia and other	:	EC50 (Daphnia m	nagna (Water flea)): 3.5 mg/l



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aquatic	invertebrates		Exposure time: 48 Method: OECD Te	
Toxicity plants	Toxicity to algae/aquatic plants		EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
Ecotox	icology Assessment			
Acute a	aquatic toxicity	:	Toxic to aquatic lit	ie.
Chronic	aquatic toxicity	:	Harmful to aquation	: life with long lasting effects.
Dipota	ssium peroxodisulph	ate	:	
Toxicity	/ to fish	:	Exposure time: 96 Method: OECD Te	
	v to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): 120 mg/l 3 h on data from similar materials
Toxicity plants	/ to algae/aquatic	:	Exposure time: 72 Method: OECD Te	2 h
			NOEC (Phaeodac Exposure time: 72 Method: OECD Te Remarks: Based of	2 h
Toxicity	/ to microorganisms	:	Exposure time: 18	nas putida): 36 mg/l 3 h on data from similar materials
Persist	ence and degradabil	ity		
Produc	xt:			

Biodegradability	:	Remarks: The methods for determining the biological degra-
		dability are not applicable to inorganic substances.



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<u>Com</u>	ponents:			
penta	apotassium bis(perox)	ymon	osulphate) bis	sulphate):
Biode	gradability	:		nethods for determining the biological degra- applicable to inorganic substances.
Dipot	assium peroxodisulp	hate	:	
Biode	gradability	:		nethods for determining biodegradability are o inorganic substances.
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Dipot	assium peroxodisulp	hate	:	
	ion coefficient: n- ol/water	:	Remarks: Not a	pplicable
Mobi	lity in soil			
No da	ata available			
Othe	r adverse effects			
Prod	uct:			
Additi matio	ional ecological infor- n	:	unprofessional Toxic to aquatic	
			Harmful to aqua	tic life with long lasting effects.
3. DISPC	SAL CONSIDERATIO	NS		
Dispo	osal methods			
Wast	e from residues	:	The product she courses or the s	nate ponds, waterways or ditches with chemi-
Conta	aminated packaging	:	Clean container	ents/ container to an approved waste disposa

Dispose of as unused product. Do not re-use empty containers.



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14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3260
Proper shipping name	:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium Monopersulfate)
Class	:	8
Packing group	:	ll
Labels	:	8
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 3260
Proper shipping name	:	Corrosive solid, acidic, inorganic, n.o.s.
		(Potassium Monopersulfate)
Class	:	8
Packing group	:	II
Labels	:	Corrosive
Packing instruction (cargo	:	863
aircraft)		
Packing instruction (passen-	:	859
ger aircraft)		
IMDG-Code		
UN number	:	UN 3260
Proper shipping name	:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
		(Potassium Monopersulfate)
Class	:	8
Packing group	:	
Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	no

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

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

National regulatory information

Regulations on Occupational Safety and Health Facilities Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste Regulations on Labelling and Hazard Communication of Hazardous Chemicals

CAROAT®



Version	Revision Date:	SDS Number:	Date of last issue: 2021/02/05
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Rules on Road Traffic Safety

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			
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			
TECI (TH)	:	On the inventory, or in compliance with the inventory			

16. OTHER INFORMATION

Further information

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/		
Revision Date	:	2024/06/20		
Other information	:	This safety datasheet only contains information relating to safety and does not replace any product information or prod- uct 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- tainer.		
Date format	:	yyyy/mm/dd		
Full text of other abbreviations ACGIH : USA. ACGIH Threshold Limit Values (TLV)				



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ACGIH / TWA

8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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.

TW / EN