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Not a PBT, vPVB substance according to the criteria of REACH regulation



Mole Mole SECTIO 4.1 Descr Gener After	N 4: First aid n ption of first aid n al information	42.24			
SECTIO 4.1 Descr Gener After After	N 4: First aid n ption of first aid n al information	neasures			
4.1 Descr Gener After After	ption of first aid n al information	200011200			
Gener After After	al information	lieasures			
After After	• • • • •	Т	'ake off all conta	aminated clothin	ng immediately.
After	innalation	If u	f inhaled, remov nconscious, eva	e to fresh air. If luate the need f	breathing is difficult, give oxygen. If or artificial respiration. Get immediate
	skin contact	V	Vash off with pl	enty of water in	nmediately, seek medical advice if necessa
After	eve contact	R	kinse with plenty	of water imme	diately and seek medical advice.
After	swallowing	D	Do not induce vo	miting and seel	c medical advice immediately.
4.2 Most	important sympto	oms and H	Ieadache, dizzi	ness, nausea, e	eye irritation
effect	s, both acute and	delayed			
4.3 Indica medic treatr	tion of any imme al attention and sj nent needed	diate T pecial	reat symptomat	ically and supp	ortively
SECTIO	N 5: Firefightir	ng measur	es		
5.1 Extin	guishing media				
Suital	le extinguishing n	nedia C	$O_2$ , dry powder	, foam or water	spray
Unsui	table extinguishing	g media w	/ater jet	andran anidaa if	have in a
5.2 Specia	li nazards arising	Irom N	lay form toxic c	arbon oxides if	burning.
the su	ostance of mixtur		Joseu containei	rel to a source of	f ignition and flash back
		F	Explosive mixtur	es may occur af	t temperatures at or above the flashpoint
5.3 Advic	e for firefighters	C	Cool closed conta	ainers exposed t	to fire with water spray.
	U	V	Vear self-contain	ned breathing a	pparatus.
SECTIO	N 6: Accidental	l release m	leasures		
6.1 Perso	nal precautions,	Use	e personal protec	tive equipment.	
prote	tive equipment a	nd Av	oid breathing va	pours, mist or g	as.
emerg	ency procedures	Ens	sure adequate ve	ntilation	
6.2 Envir	onmental precaut	ions Do	not allow to en	ter sewers, surfa	ace or ground water.
6.3 Meth	ds and material f	or Soa	ak up with inert	absorbent mate	rial and dispose of as hazardous waste.
conta	illient and cleani	ng up Ke	ep III suitable, c	ioseu container	s for disposal.
6.4 Refer	ence to other section	ons Sec	ction 8 for inform	nation on persor	nal protection equipment
or neith	sice to other seem	Sec	ction 13 for disp	osal informatio	n n
SECTIO	N 7: Handling	and storag	ge		
7.1 Preca	utions for safe	If po	ssible, use mate	rial transfer, me	etering and blending plants that are closed.
handl	ing	Avoi	d contact with s	kin and eyes.	
		Avoi	d inhalation of	vapour or mist.	
7.2 Condi	tions for safe stora e on protection ag	age, including ainst Follo	<b>g any incompat</b> w normal meas	ibilities ures for prevent	tive fire protection.
Auvic	d explosion	<b>C</b> +.	· · · · · · · · · · · · · · · · · · ·		
fire a		Store	tin a cool place		
fire a Stora	ge	17 -	s aonteiner diel	1	my and wall wantilated alars
fire a Stora	ge	Keep	container tight	ly closed in a d	ry and well-ventilated place.
fire a Stora	ge	Keep Resid	container tight dual vapours mi	ly closed in a d ght explode on	ry and well-ventilated place. ignition; do not apply heat, cut, drill and
fire a Stora	ge	Keep Resid grind	container tight dual vapours mi l or weld on or r hanical exhaust	ly closed in a d ght explode on lear the container required	ry and well-ventilated place. ignition; do not apply heat, cut, drill and er.
Advic fire a Stora	ge e on common stor	Keep Resid grind Mecl	o container tight dual vapours mig l or weld on or r hanical exhaust	ly closed in a d ght explode on near the container required.	ry and well-ventilated place. ignition; do not apply heat, cut, drill and er. together!

Issue Date: 16.08.2017



7.3	Storage stability Specific end use(s)	Stable under recommended storage conditions No further relevant information available						
SE	CTION 8: Exposure cont	rols/personal protec	tion					
8.1	Control parameters							
	Occupational Exposure Limit	no limits have been det	ermined					
8.2	Exposure controls							
	Appropriate engineering controls	If possible, use materia	l transfer, meter	ing and blending plants that are closed.				
	Personal protective equipme	ent						
	Eye/ face protection	closed goggles, face shie	ld					
	Skin protection	Type of material	Thickness	Breakthrough time				
	Hand protection	Butyl-rubber	0.5 mm	> 480 min				
		Polychloroprene (PCP)	0.5 mm	110 min				
	<b>Body protection</b>	Boots, body suit						
	<b>Respiratory protection</b>	Respiratory equipment with suitable filter or a self-contained respiratory apparatus						
	Thermal hazards	Combustible liquid; possibility of decomposition on excess heating						
	Industrial hygiene	Do not inhale vapours / a	erosols.					
		Avoid contact with skin and eyes.						
		Remove immediately all	contaminated cl	lothing.				
		Use disposable clothing	if appropriate.					
		Smoking, eating and drin	iking should be	prohibited in the application area.				

# • SECTION 9: Physical and chemical properties

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9.1	Information on basic physical a	nd chemical properties			
	Appearance	Colourless liquid or crystalline solid			
	Odour	menthol-like no data available			
	Odour threshold				
	рН	no data available			
	Melting point	26°C			
	Boiling point	197°C			
	Flash point	88°C (Closed cup)			
	Evaporation rate	no data available not applicable (product is a liquid) no data available 0.1hPa at 20°C			
	Flammability (solid, gas)				
	Flammability limits				
	Vapour pressure				
	Vapour density	4.91(air = 1)			
	Relative density	0.878 at 40°C			
	Solubility in water	1.45g/l at 20°C			
	Partition coefficient	2.86 log Kow (n-octanol/water) at 23°C			
	Ignition temperature	no data available			
	Decomposition temperature	no data available			
	Viscosity at 20°C	no data available			
	Explosive properties	no explosive properties however containers may explode in fire			
	Oxidizing properties	no oxidizing properties			
9.2	Other information	no further data			

# • SECTION 10: Stability and reactivity

10.1	Reactivity	No hazardous reaction when handled and stored according to provisions.
10.2	Chemical stability	Under storage at normal ambient temperatures (-40°C to +40°C), the
		product is stable.
10.3	Possibility of hazardous reactions	No known hazardous reactions if used as directed
10.4	Conditions to avoid	Avoid excessive heat and sources of ignition
10.5	Incompatible materials	None known
10.6	Hazardous decomposition	Thermal decomposition products- carbon oxides
	products	



# **SECTION 11: Toxicological information**

#### 11.1 Info . 4 :

L	Informati	on on toxicolo	gical effect	S		
	Acute tox	icity				
	LD50	oral	rat	3250 mg/kg bw	harmful, Category 5	
	LC50	inhalation	rat	no data available		
	LD50	Dermal	rabbit	2.8ml/kg bw	harmful, Category 5	
	Skin irritation			irritating		
	Serious eye irritation			irritating		
	Respiratory or skin sensitization			No sensitizing effects known		
	Germ cell mutagenicity			non mutagenic (Ames test)		
	Carcinogenicity			non-carcinogeni	c	
	Reproductive toxicity			no adverse effect on reproduction (rat)		
	STOT-single exposure			irritating to eye and skin		
	STOT-rep	peated exposur	e			

# **SECTION 12: Ecological information**

### 12.1 Toxicity

	Aquatic toxicity				
	Toxicity to fish	no data a	available		
	Toxicity to aquatic invertebrates	EC50	48h	94.1mg/L	Daphnia magna
	Toxicity to aquatic algae and cyanobacteria	EC50	72h	32.2mg/L	Desmodesmus subspicatus
	Toxicity to microorganisms	no data a	available		
	Long term toxicity to aquatic invertebrates	NOEC	21d	25mg/L	Daphnia magna
12.2	Persistence and degradability				
	Biodegradation	not readi	ly biodegra	adable (1.45%	in 28days)
12.3	<b>Bioaccumulative potential</b>	very low	potential f	for bioaccumu	lation
12.4	Mobility in soil	log Koc :	= 2.86; low	v possibility fo	or sorption in soil
12.5	Results of PBT and vPvB assessment	Not a PB	BT, vPvB si	ubstance acco	rding to the REACH regulation
12.6	Other adverse effects	No furthe	er informat	tion available	

## **SECTION 13: Disposal considerations**

13.1	Waste treatment	Observe all federal, state, and local environmental regulations.
	methods	Contact a licensed professional waste disposal service to dispose of this material.
		Dissolve or mix the material with a combustible solvent and burn in a chemical
		incinerator equipped with an afterburner and scrubber.
		Do not dispose in sewage.

#### **SECTION 14: Transport information** ٠

		ADR/RID	IMDG	ICAO/IATA	
14.1	UN Number	-	-	-	
14.2	UN proper shipping name	not l	nazardous for t	ransport	
14.3	Transport hazard class	-	-	-	
14.4	Packaging group	-	-	-	
14.5	Environmental hazards	not environme	ntally hazardo	us, not a marine pollutant	
14.6	Special precautions for the user	Combustible 1	iquid; Flash po	int 88°C (closed cup)	
14.7	Transport in bulk according to	See regulatory	information for	or transport approval	
	Annex II of MARPOL73/78 and				
	the IBC Code				

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Major accident hazard Seveso III no

**International Chemical Inventory Status** USA (TSCA) listed Canada (DSL) listed Australia (AICS) listed Japan (MITI) listed Revision: 17-02 Replaces Version 15-01



	Korea (KECL)	listed
	Philippines (PICCS)	listed
	China	listed
	New Zealand	listed
	Taiwan	listed
15.2	Chemical safety assessment	A Chemical Safety Assessment will be carried out at the time of
		REACH registration

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### **Further information:**

Sections in which changes have been made since the last version are marked with a diamond  $\blacklozenge$  in the left hand margin.

### Abbreviations and acronyms in English language:

- European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADN ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
- AICS Australian Inventory of Chemical Substances
- CAS Chemical Abstracts Service (division of the American Chemical Society)
- CLP Classification for Labeling and Packaging
- DSL Domestic Substances List
- EC European Commission EC50 Half maximal effective concentration
- EINECS European Inventory of Existing Commercial Chemical Substances
- GHS Globally Harmonized System of Classification and Labeling of Chemicals
- IATA International Air Transport Association
- IBC
- International Bulk Chemical
- ICAO International Civil Aviation Organization IMDG International Maritime Code for Dangerous Goods
- KECL Korea Existing Chemicals List
- KOC
- Soil adsorption coefficient KOW Partition Coefficient octanol-water
- LC50 Lethal concentration, 50 percent
- LD50 Lethal dose, 50 percent
- MARPOL International Convention for the Prevention of Pollution from Ships
- MITI Ministry of International Trade and Industry
- NOEC No Observed Effect Concentration
- PBT Persistent, bioaccumulative and toxic substances
- PICCS Philippine Inventory of Chemicals and Chemical Substances
- Regulations Concerning the International Transport of Dangerous Goods by Rail RID
- STOT Specific target organ toxicity
- TSCA Toxic Substances Control Act
- UN United Nations vPVB (very) Persistent, (very) Bioaccumulative

### Sources

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ECHA	https://echa.europa.eu/registratior	n-dossier/-/registered-dossier/5161/1
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- Chemid https://chem.nlm.nih.gov/chemidplus/rn/116-02-9
- https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/r?dbs+hsdb:@term+@rn+@rel+116-02-9 HSDB