MATERIAL DECLARATION (MD)

<Supplier (respondent) information>

of declaration>

Date

2023/09/27

1D identification number>

	Didentification number>				Company name		Truebell Marketing & Trading LLC	
ID-No.	V7KL8/S/PO/2023- 24/00699 – 1910025908				Division name		Shipchandli	ng
					Add	ress		6, Industrial Area 13, ez Hypermarket E
ther informa	ation>				Contact	person	Pradeesh Kr	ishnakurup
Remark 1					Telephon	e number	+971 6 5130	200
Remark 2					Fax nu	mber	+971 6 534	2112
Remark 3					Email a	ddress	pradeesh@t	ruebell.org
				-	SDoC ID	number	V7KL8/S/PO	/2023-24/00699 — 1910025908
roduct infor	mation>			Deli	vered unit			
F	Product name	Product num	her		- entrees	-	Dro	dust information
	roduce name	Product number		Amo unt	Unit		Product information	
KL8/S/PO/20 10025908	023-24/00699 —	STORES (HCF CLEANER	₹)	800	Liters	V7KL8/S/	/PO/2023-24/	/00699 – 1910025908
1aterials info	aterials information shows t	he amount of hazardous	materials conta	ined in	1	Unit L	■ 19. 19. 19.1	, m, m², m³, piece, etc.) of the
	aterials information shows to Material	1	materials contains Threshold value	Pres	ent above hold value?	If yes, m	product aterial mass	, m, m², m³, piece, etc.) of the If yes, information on where it is used
This ma	Material	name	Threshold value	Pres thres	ent above hold value? es / No	L If yes, m	product	If yes, information on where it is
This ma	Material Asbestos Polychlorinated biphenyls	name Asbestos Polychlorinated	Threshold	Pres thres	ent above hold value?	If yes, m	product aterial mass	If yes, information on where it is
This ma	Material Asbestos	name Asbestos	Threshold value 0.1% *	Pres thres Ye	ent above hold value? es / No	If yes, m	product aterial mass	If yes, information on where it is
This ma	Material Asbestos Polychlorinated biphenyls	name Asbestos Polychlorinated biphenyls (PCBs) Chlorofluorocarbons	Threshold value 0.1% *	Pres thres	ent above hold value? es / No IO	If yes, m	product aterial mass	If yes, information on where it is
This ma	Material Asbestos Polychlorinated biphenyls	name Asbestos Polychlorinated biphenyls (PCBs) Chlorofluorocarbons (CFCs)	Threshold value 0.1% *	Pres thres Ye	ent above hold value? es / No NO NO	If yes, m	product aterial mass	If yes, information on where it is
This ma	Asbestos Polychlorinated biphenyls (PCBs)	name Asbestos Polychlorinated biphenyls (PCBs) Chlorofluorocarbons (CFCs) Halons Other fully halogenated	Threshold value 0.1% * 50 mg/kg	Pres thres	ent above hold value? es / No IO IO	If yes, m	product aterial mass	If yes, information on where it is
This ma	Asbestos Polychlorinated biphenyls (PCBs) Ozone Depleting	name Asbestos Polychlorinated biphenyls (PCBs) Chlorofluorocarbons (CFCs) Halons Other fully halogenated CFCs	Threshold value 0.1% * 50 mg/kg	Pres thres	ent above hold value? es / No	If yes, m	product aterial mass	If yes, information on where it is
This ma	Asbestos Polychlorinated biphenyls (PCBs)	name Asbestos Polychlorinated biphenyls (PCBs) Chlorofluorocarbons (CFCs) Halons Other fully halogenated CFCs Carbon tetrachloride	Threshold value 0.1% * 50 mg/kg	Presthres Ye	ent above hold value? es / No IO IO IO NO NO	If yes, m	product aterial mass	If yes, information on where it is
This ma	Asbestos Polychlorinated biphenyls (PCBs) Ozone Depleting	name Asbestos Polychlorinated biphenyls (PCBs) Chlorofluorocarbons (CFCs) Halons Other fully halogenated CFCs Carbon tetrachloride 1, 1, 1-Trichloroethane Hydrochlorofluorocarb	Threshold value 0.1% * 50 mg/kg	Pres thres	ent above hold value? es / No NO NO NO NO	If yes, m	product aterial mass	If yes, information on where it is
This ma	Asbestos Polychlorinated biphenyls (PCBs) Ozone Depleting	name Asbestos Polychlorinated biphenyls (PCBs) Chlorofluorocarbons (CFCs) Halons Other fully halogenated CFCs Carbon tetrachloride 1, 1, 1-Trichloroethane Hydrochlorofluorocarb ons Hydrobromofluorocarb	Threshold value 0.1% * 50 mg/kg	Presthres Ye	ent above hold value? es / No IO IO IO NO NO NO NO NO NO	If yes, m	product aterial mass	If yes, information on where it is
This ma	Asbestos Polychlorinated biphenyls (PCBs) Ozone Depleting	name Asbestos Polychlorinated biphenyls (PCBs) Chlorofluorocarbons (CFCs) Halons Other fully halogenated CFCs Carbon tetrachloride 1, 1, 1-Trichloroethane Hydrochlorofluorocarb ons Hydrobromofluorocarb ons	Threshold value 0.1% * 50 mg/kg	Pres thres	ent above hold value? es / No	If yes, m	product aterial mass	If yes, information on where it is

	Anti-fouling systems containing organotin compounds as a biocide	e.g. Triphenyl tins (TPTs)	2500 mg total tin/kg	NO	
		e.g. Tributyltin oxide (TBTO)		NO	
SRR **	Perfluorooctane sul	fonic acid (PFOS)	10 mg/kg	NO	

Table	Material name	Threshold value	Present above threshold value?	If yes, material mass		If yes, information on where it is
		value	Yes / No	Mass	Unit	used
	Cadmium and cadmium compounds	100 mg/kg	NO			
	Hexavalent chromium and hexavalent chromium compounds	1000 mg/kg	NO			
ible B	Lead and lead compounds	1000 mg/kg	NO			
aterials	Mercury and mercury compounds	1000 mg/kg	NO			
ed in pendix 2 of	Polybrominated biphenyl (PBBs)	50 mg/kg	NO			
the	Polybrominated diphenyl ethers (PBDEs)	1000 mg/kg	NO			
invention)	Polychloronaphthalenes (Cl >=3)	50 mg/kg	NO			
	Radioactive substances	No threshold value	NO			
	Certain shortchain chlorinated paraffins	1%	NO			
SRR **	Brominated flame retardant (HBCDD)	100 mg/kg	NO			

In accordance with regulation 4 of the IMO Hong Kong Convention, for all ships, new installation of materials which contain asbestos shall be prohibited. According to the UN recommendation "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" adopted by the United Nations Economic and Social Council's Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (UNSCEGHS), the UN's Sub Committee of Experts, in 2002 (published in 2003), carcinogenic mixtures classified as Category 1A (including asbestos mixtures) under the GHS are required to be labelled as carcinogenic if the ratio is more than 0.1%. However, if 1% is applied, this threshold value should be recorded in the Inventory and, if available, the Material Declaration and can be applied not later than five years after the entry into force of the Convention. The threshold value of 0.1% need not be retroactively applied to those Inventories and declarations.

^{**} Additional materials to be listed, in accordance with Annex I and Annex II of the European Union Ship Recycling Regulation (Regulation (EU) No 1257/2013

SUPPLIER'S DECLARATION OF CONFORMITY FOR MATERIAL DECLARATION MANAGEMENT

1.	SDoC Unique Identificati	on Number:	V7KL8/S/P0/2023-24/00699 - 1910025908	
2.	Issuer's Name:		Truebell Marketing & Trading LLC	
	Issuer's Address:		PO Box 4146, Industrial Area 13,	
			Behind Ramez Hypermarket, Sharjah, UAE	
3.	Object(s) of the Declarat	ion:	All items as per below item list supplied under PO	
4.	The object(s) of the declar	aration descri	bed above is in conformity with the following documents	::
	Document No.	<u>Title</u>		Edition/Date of Issue
	MEPC.269(68)	Guidelines fo	or the development of the Inventory of Hazardous Materials	2015/05/15
	EU SRR	Regulation (E	EU) No 1257/2013	2013/11/20
	EMSA	Best Practice	Guide on the IHM	2016/10/28
5.	Additional Information:			
5.	Signed for and on behalf o			
	Truebell Marketing & Tra	ding LLC		
	Sharjah, UAE			
	Place and date of Issue			
7.	Pradeesh Krishnakurup,	Technical Pure		-3\
	Name, Function		Signature	1.393

This SDoC is to be completed in accordance with IMO Resolution MEPC.269(68) and should be accompanied by one or more Material Declarations (MD)

MATERIAL DECLARATION (MD)

<Supplier (respondent) information>

Shipchandling

Truebell Marketing & Trading LLC

Company name

Division name

of declaration>

Date

ID-No.

the

invention)

Substance (ODS)

2023/09/27

V7KL8/S/PO/2023-

24/00699 -

1D identification number>

	1910025908							
4-		I			Addi	ress		6, Industrial Area 13, ez Hypermarket
ther inform	ation>				Contact	person	Pradeesh Kr	
Remark 1					Telephone	e number	+971 6 5130	200
Remark 2					Fax nu	mber	+971 6 534	2112
Remark 3					Email a	ddress	pradeesh@t	ruebell.org
11012					SDoC ID	number	V7KL8/S/PO,	/2023-24/00699 — 1910025908
roduct infor	mation>			Deli	vered unit			
	Product name	Product num	nber	Amo unt	Unit	74	Pro	duct information
KL8/S/PO/2023-24/00699 – STORES (METHANOL 10025908				400	Liters	V7KL8/S/	/PO/2023-24/	00699 — 1910025908
1aterials info	ormation> aterials information shows to	ne amount of hazardous	materials contai	ined in	1	Unit L	(Unit: kg	, m, m², m³, piece, etc.) of the
Table	Material	name	Threshold	I BOWER	ent above nold value?	If yes, m	aterial mass	If yes, information on where it is
			value	Ye	s / No	Mass	Unit	used
	Asbestos	Asbestos	0.1% *	N	10			
	Polychlorinated biphenyls (PCBs)	Polychlorinated biphenyls (PCBs)	50 mg/kg	N	10			
		Chlorofluorocarbons (CFCs)		N	10			
		Halons	1	1	NO			
ible A aterials		Other fully halogenated CFCs		1	NO			
ed in		Carbon tetrachloride		1	NO			
pendix 1 of	Ozone Depleting	1, 1, 1-Trichloroethane	No threshold	1	VO			

value

NO

NO

NO

NO

NO

Hydrochlorofluorocarb

ons Hydrobromofluorocarb

> ons Methyl bromide

Bromochloromethane

e.g. Tributyltin (TBT)

	Anti-fouling systems containing organotin compounds as a biocide	e.g. Triphenyl tins (TPTs)	2500 mg total tin/kg	NO	
Vienne et		iocide e.g. Tributyltin oxide (TBTO)		NO	
SRR **	Perfluorooctane sul	fonic acid (PFOS)	10 mg/kg	NO	

Table	Material name	Threshold value -	Present above threshold value?	If yes, material mass		If yes, information on where it is
			Yes / No	Mass	Unit	used
	Cadmium and cadmium compounds	100 mg/kg	NO			
	Hexavalent chromium and hexavalent chromium compounds	1000 mg/kg	NO			
₃ble B	Lead and lead compounds	1000 mg/kg	NO			
aterials	Mercury and mercury compounds	1000 mg/kg	NO			
ed in pendix 2 of	Polybrominated biphenyl (PBBs)	50 mg/kg	NO			
the	Polybrominated diphenyl ethers (PBDEs)	1000 mg/kg	NO			
nvention)	Polychloronaphthalenes (Cl >=3)	50 mg/kg	- NO			
	Radioactive substances	No threshold value	NO			
	Certain shortchain chlorinated paraffins	1%	NO			
SRR **	Brominated flame retardant (HBCDD)	100 mg/kg	NO			

In accordance with regulation 4 of the IMO Hong Kong Convention, for all ships, new installation of materials which contain asbestos shall be prohibited. According to the UN recommendation "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" adopted by the United Nations Economic and Social Council's Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (UNSCEGHS), the UN's Sub Committee of Experts, in 2002 (published in 2003), carcinogenic mixtures classified as Category 1A (including asbestos mixtures) under the GHS are required to be labelled as carcinogenic if the ratio is more than 0.1%. However, if 1% is applied, this threshold value should be recorded in the Inventory and, if available, the Material Declaration and can be applied not later than five years after the entry into force of the Convention. The threshold value of 0.1% need not be retroactively applied to those Inventories and declarations.

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2.	Issuer's Name:		Truebell Marketing & Trading LLC	
	Issuer's Address:		PO Box 4146, Industrial Area 13,	_
			Behind Ramez Hypermarket, Sharjah, UAE	
3.	Object(s) of the Declaration	on:	All items as per below item list supplied under PO	
4.	The object(s) of the declar	ration descri	bed above is in conformity with the following document	ts:
	Document No.	<u>Title</u>		Edition/Date of Issue
	MEPC.269(68)	Guidelines fo	r the development of the Inventory of Hazardous Materials	2015/05/15
	EU SRR	Regulation (E	U) No 1257/2013	2013/11/20
	EMSA	Best Practice	Guide on the IHM	2016/10/28
5.	Additional Information:			
5.	Signed for and on behalf of			
	Truebell Marketing & Trad	ing LLC		
	Sharjah, UAE			
	Place and date of Issue		(Laradae)	
7.	Pradeesh Krishnakurup, 1	Technical Purc	haser	Just 1
	Name, Function		Signature	

This SDoC is to be completed in accordance with IMO Resolution MEPC.269(68) and should be accompanied by one or more Material Declarations (MD)

MATERIAL DECLARATION (MD)

<Supplier (respondent) information>

of declaration>

Date

2023/09/27

1D identification number>

1D identifica	dentification number>				Compan	Company name		Truebell Marketing & Trading LLC	
ID-No.	V7KL8/S/PO/2023- 24/00699 — 1910025908				Division	name	Shipchandli	ng	
-	-	•		5	Addr	ress		6, Industrial Area 13, ez Hypermarket E	
ther informa	ation>				Contact	person	Pradeesh Kr	ishnakurup	
Remark 1					Telephone	e number	+971 6 5130	1200	
Remark 2				1	Fax nu	mber	+971 6 534	2112	
Remark 3					Email a	ddress	pradeesh@t	ruebell.org	
					SDoC ID	number		/2023-24/00699 — 1910025908	
roduct infor	mation>			ŷ.					
				Deli	vered unit	J.			
F	Product name	Product nun	nber	Amo unt	Unit		Product information		
KL8/S/PO/20 10025908	023-24/00699 —	STORES (RESINS (jabor	obi))	1 .	BAG	V7KL8/S/	PO/2023-24/	/00699 – 1910025908	
This ma	aterials information shows t	2 644	Threshold	Pres	1 sent above hold value?	If yes, m	Unit: kg product aterial mass	, m, m², m³, piece, etc.) of the If yes, information on where it is	
1117 (1770) (1970)			value	. / Y	es / No	Mass	Unit	used	
	Asbestos	Asbestos	0.1% *	. 1	10				
	Polychlorinated biphenyls (PCBs)	Polychlorinated biphenyls (PCBs)	50 mg/kg	1	10				
		Chlorofluorocarbons (CFCs)		1	10				
		Halons		7.7	NO				
able A aterials		Other fully halogenated CFCs			NO				
ed in		Carbon tetrachloride		120	NO				
pendix 1 of	Ozone Depleting	1, 1, 1-Trichloroethane	No threshold	P.	NO				
the invention)	Substance (ODS)	Hydrochlorofluorocarb ons	value	10.7	NO				
		Hydrobromofluorocarb ons			NO				
		Methyl bromide		(A 17)	NO				
		Bromochloromethane			NO				
		e.g. Tributyltin (TBT)		5.7	NO				
L				17.	4				

	Anti-fouling systems containing organotin compounds as a biocide	e.g. Triphenyl tins (TPTs)	2500 mg total tin/kg	NO	
		e e.g. Tributyltin oxide (TBTO)		NO	
SRR **	Perfluorooctane sul	fonic acid (PFOS)	10 mg/kg	NO	

Table	Material name	Threshold value	Present above threshold value?	If yes, material mass		If yes, information on where it is
		value	Yes / No	Mass	Unit	used
	Cadmium and cadmium compounds	100 mg/kg	NO			
	Hexavalent chromium and hexavalent chromium compounds	1000 mg/kg	NO			
ible B	Lead and lead compounds	1000 mg/kg	NO			
aterials	Mercury and mercury compounds	1000 mg/kg	NO			
ed in pendix 2 of	Polybrominated biphenyl (PBBs)	50 mg/kg	NO			
the	Polybrominated diphenyl ethers (PBDEs)	1000 mg/kg	NO 1			
invention)	Polychloronaphthalenes (Cl >=3)	50 mg/kg	NO			
	Radioactive substances	No threshold value	NO			
	Certain shortchain chlorinated paraffins	1%	NO			
SRR **	Brominated flame retardant (HBCDD)	100 mg/kg	NO			

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2.	Issuer's Name:		Truebell Marketing & Trading LLC	_
	Issuer's Address:		PO Box 4146, Industrial Area 13,	_
			Behind Ramez Hypermarket, Sharjah, UAE	_
3.	Object(s) of the Declarat	ion:	All items as per below item list supplied under PO	
4.	The object(s) of the declar	aration descri	ibed above is in conformity with the following documents	: Edition/Date of Issue
	MEPC.269(68)	12-1-12	or the development of the Inventory of Hazardous Materials	
	EU SRR		EU) No 1257/2013	2015/05/15 2013/11/20
	EMSA	Best Practice	Guide on the IHM	2016/10/28
5.	Additional Information:	-		
6.	Signed for and on behalf o	of	v .	
	Truebell Marketing & Tra	ding LLC		
	Sharjah, UAE			
	Place and date of Issue			
7.	Pradeesh Krishnakurup,	Technical Pure	chaser	
	Name, Function		Signature	Mary J

This SDoC is to be completed in accordance with IMO Resolution MEPC.269(68) and should be accompanied by one or more Material Declarations (MD)

Delivery Order TRN # 100000620300003

Customer :3005230

Midas Tankers Pvt Ltd

SO# :2020022831 Date :01.08.2023 LPO :V7KL8/S/RFQ/2023-24/00699-

CHEM MELB

Navi Mumbai, Maharashtra

SI	Item Code IMPA	Description	UOM	Quantity
1	30127542	Vego Neutral HCF, 200 Ltr Drum	CAN	3.000
2	30122361	METHANOL, 200LTR/DRUM	CAN	1.000
3	30127543	Mixed Bed Resin 25 Ltr Bag	BAG	4.000



VEGO NEUTRAL HCF

Universal neutral liquid degreaser for the removal of vegetable oils and animal oils and fats from zinc-silicate coated tanks.

- * Neutral cleaning product based on highly efficient dissolving and low foaming non-ionic surface active agents.
- * Specially developed for the removal of vegetable, animal and mineral oils as well as fats where cleaning with Alkaline Cleaners are not possible.
- * Suitable for cleaning tanks coated with zinc-silicate and all common metals.

Application

- 1. VEGO Neutral HCF can be used for the removal of vegetable and/or animal oils and fats and light mineral oils in aluminium and/or zinc-silicate coated tanks.
- 2. VEGO Neutral HCF can be used as an after-treatment agent in hydrocarbon free cleaning operations where cleaning has been carried out with e.g. VEGO Degreaser HD or VEGO Degreaser GP.

Directions for use

Cleaning of tanks

Prewash before cleaning with VEGO Neutral HCF it is recommended to prewash with hot water at 50°C. For drying and semi-drying oils a prewash with cold water should be carried out immediately after discharge of cargo to retard oxidation and hardening of oil residues.

Recirculation method

A chemical solution is prepared in an empty slop tank or one of the after tanks near the pump room, circulated via the automatic tank washing system pump and heater to the tank to be cleaned, wherefrom the solution is returned to the chemical solution tank via the stripping line. Usually, it is not possible to recirculate the chemical solution through the tank washing system heater (to maintain solution temperature) without making a temporary connection between the chemical solution tank and the tank washing pump. Capacities of solution tank, pipeline and pumps etc. should be calculated carefully to ensure sufficient volumetric quantity for a continuous recirculation.

Depending on size and condition of tanks to be cleaned and quantity of chemical solution, a drawback in this method is that usually only 3 (three) tanks can be cleaned with one solution after which a fresh solution should be made and heated before cleaning can continue. Depending on the degree of contamination VEGO Neutral HCF is circulated as a 2-3% solution for a period of 2-6 hours. The water temperature should be approx. 20-60 °C. After the circulation period rinse thoroughly with water.

Spray method

Spray the hot tank surfaces with undiluted VEGO Neutral HCF until the surfaces are well soaked and let the product act for at least 30 min. Then rinse all tank surfaces with water at max. 60°C for 45 minutes.

Hydrocarbon free cleaning

Hand spray VEGO Neutral HCF on the hot tank surfaces and let it act for 30 minutes. Rinse thoroughly with hot chloride free water when cleaning is completed. If fresh water is used, steam tanks afterwards to remove any chlorides which may cause delay in passing the chloride test for methanol etc.

Properties

Neutral colourless liquid with a characteristic odour. Completely miscible with sea water and fresh water. Suitable for use on zinc-silicate coatings and most common metals. Limited application on epoxy coatings (maximum concentration 10% and maximum temperature 60°C)

Specific gravity (20%) : 1.00 Flash point PM CC : 74 °C pH (1% solution) : 7.00

IMO-Code : No classification

The details of our products are given completely free of undertaking. Since their application lies outside our control, we cannot accept any liability for the results.



GHS Safety Data Sheet

Version No:1 Page 1 of 16

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

METHANOL

OTHER NAMES

CH4-O, CH3OH, "methyl alcohol", carbinol, "colonial spirit", "Columbian spirit", hydroxymethane, monohyroxymethane, "pyroxylic spirit", "wood alcohol", "wood naphtha", "wood spirit", methylol, "methyl hydrate"

PROPER SHIPPING NAME

METHANOL

PRODUCT USE

Used as an industrial and pharmaceutical solvent: raw material for the manufacture of formaldehyde; used to denature ethanol; as a octane booster in petrol and as a antifreeze for automotive radiators and air brakes. As an ingredient of gasoline and diesel oil antifreezes; used as a fuel for picnic stoves and is used as an extractant for vegetable and animal oils.

SUPPLIER

Company: S D FINE- CHEM LIMITED

Address:

315-317, T.V. INDUSTRIAL ESTATE,

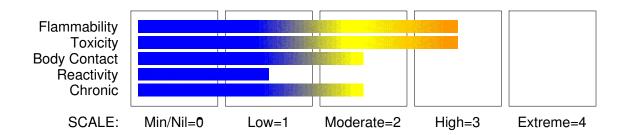
248, WORLI,

MUMBAI- 400030.INDIA. technical@sdfine.com

Telephone: 91- 22- 24959898 Telephone: 91- 22- 24959899

Fax: 91-22-24937232

HAZARD RATINGS



Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Acute Toxicity (Dermal) Category 3
Acute Toxicity (Inhalation) Category 2
Acute Toxicity (Oral) Category 3
Eye Irritation Category 2B
Flammable Liquid Category 2
Organ Damage Category 1
Respiratory Effects Category 3
Skin Corrosion/Irritation Category 3







EMERGENCY OVERVIEW

HAZARD

DANGER

Determined GHS criteria:

H336 H225 H330 H311 H301 H316 H320 H372

May cause drowsiness and dizziness

Highly flammable liquid and vapour

Fatal if inhaled

Toxic in contact with skin

Toxic if swallowed

Causes mild skin irritation

Causes eve irritation

Causes damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS

Prevention

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Wear respiratory protection.

Ground/bond container and receiving equipment.

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

Wear protective gloves/clothing

Use only outdoors or in a well ventilated area.

Wear protective gloves and eye/face protection.

Keep container tightly closed.

Keep away from heat/sparks/open flame - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools.

Take precautionary measures against static discharge

Response

Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Gently wash with plenty of soap and water. If eye irritation persists, get medical advice/attention.

GHS Safety Data Sheet

Version No:1 Page 3 of 16

Section 2 - HAZARDS IDENTIFICATION

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If skin irritation occurs, seek medical advice/attention.

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

In case of fire, use alcohol-type foam for extinction.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Get medical advice/attention if you feel unwell.

If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower.

Specific treatment: refer to Label or MSDS.

Remove/Take off immediately all contaminated clothing Wash/Decontaminate removed clothing before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with relevant legislation.

	Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS		
NAME		CAS RN	%
methanol		67-56-1	>98

Section 4 - FIRST AID MEASURES

SWALLOWED

- · For advice, contact a Poisons Information Centre or a doctor at once.
- · Urgent hospital treatment is likely to be needed.
- · If swallowed do NOT induce vomiting.
- \cdot If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- · Observe the patient carefully.
- · Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- · Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- · Transport to hospital or doctor without delay.

EYE

If this product comes in contact with the eyes:

- · Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- · Transport to hospital or doctor without delay.
- · Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

If skin or hair contact occurs:

- · Quickly but gently, wipe material off skin with a dry, clean cloth.
- · Immediately remove all contaminated clothing, including footwear.

GHS Safety Data Sheet

Version No:1
Page 4 of 16
Section 4 - FIRST AID MEASURES

- · Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- · Transport to hospital, or doctor.

INHALED

- · If fumes or combustion products are inhaled remove from contaminated area.
- · Lay patient down. Keep warm and rested.
- · Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- · Transport to hospital, or doctor, without delay.

NOTES TO PHYSICIAN

For acute and short term repeated exposures to methanol:

- · Toxicity results from accumulation of formaldehyde/formic acid.
- · Clinical signs are usually limited to CNS, eyes and GI tract Severe metabolic acidosis may produce dyspnea and profound systemic effects which may become intractable. All symptomatic patients should have arterial pH measured. Evaluate airway, breathing and circulation.
- · Stabilise obtunded patients by giving naloxone, glucose and thiamine.
- Decontaminate with Ipecac or lavage for patients presenting 2 hours post-ingestion. Charcoal does not absorb well; the usefulness of cathartic is not established.
- · Forced diuresis is not effective; haemodialysis is recommended where peak methanol levels exceed 50 mg/dL (this correlates with serum bicarbonate levels below 18 mEq/L).
- Ethanol, maintained at levels between 100 and 150 mg/dL, inhibits formation of toxic metabolites and may be indicated when peak methanol levels exceed 20 mg/dL. An intravenous solution of ethanol in D5W is optimal.
- · Folate, as leucovorin, may increase the oxidative removal of formic acid. 4
- -methylpyrazole may be an effective adjunct in the treatment. 8.Phenytoin may be preferable to diazepam for controlling seizure.

[Ellenhorn Barceloux: Medical Toxicology]
BIOLOGICAL EXPOSURE INDEX - BEI

Determinant Index Sampling Time Comment

1. Methanol in urine 15 mg/l End of shift B, NS

2. Formic acid in 80 mg/gm creatinine Before the shift at end of workweek end of workweek

B: Background levels occur in specimens collected from subjects NOT exposed. NS: Non-specific determinant - observed following exposure to other materials.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- · Alcohol stable foam.
- · Dry chemical powder.
- · BCF (where regulations permit).
- · Carbon dioxide.
- · Water spray or fog Large fires only.

FIRE FIGHTING

- · Alert Fire Brigade and tell them location and nature of hazard.
- · May be violently or explosively reactive.
- · Wear full body protective clothing with breathing apparatus.

GHS Safety Data Sheet

Version No:1
Page 5 of 16
Section 5 - FIRE FIGHTING MEASURES

- · Prevent, by any means available, spillage from entering drains or water course.
- · Consider evacuation (or protect in place).
- · Fight fire from a safe distance, with adequate cover.
- · If safe, switch off electrical equipment until vapour fire hazard removed.
- · Use water delivered as a fine spray to control fire and cool adjacent area.
- · Avoid spraying water onto liquid pools.
- · DO NOT approach containers suspected to be hot.
- · Cool fire exposed containers with water spray from a protected location.
- · If safe to do so, remove containers from path of fire.

FIRE/EXPLOSION HAZARD

- · Liquid and vapour are highly flammable.
- · Severe fire hazard when exposed to heat, flame and/or oxidisers.
- · Vapour may travel a considerable distance to source of ignition.
- · Heating may cause expansion or decomposition leading to violent rupture of containers.
- · On combustion, may emit toxic fumes of carbon monoxide (CO).

Combustion products include: carbon dioxide (CO2), formaldehyde, other pyrolysis products typical of burning organic material.

FIRE INCOMPATIBILITY

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

Personal Protective Equipment

Breathing apparatus. Chemical splash suit.

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS

- · Remove all ignition sources.
- · Clean up all spills immediately.
- · Avoid breathing vapours and contact with skin and eyes.
- · Control personal contact by using protective equipment.
- · Contain and absorb small quantities with vermiculite or other absorbent material.
- · Wipe up.
- · Collect residues in a flammable waste container.

MAJOR SPILLS

- · Clear area of personnel and move upwind.
- · Alert Fire Brigade and tell them location and nature of hazard.
- · May be violently or explosively reactive.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.
- · Consider evacuation (or protect in place).
- · No smoking, naked lights or ignition sources.
- Increase ventilation.
- Stop leak if safe to do so.
- · Water spray or fog may be used to disperse vapour.
- Contain or absorb spill with sand, earth or vermiculite.
- · Use only spark-free shovels and explosion proof equipment.
- · Collect recoverable product into labelled containers for recycling.
- · Collect solid residues and seal in labelled drums for disposal.
- · Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and

GHS Safety Data Sheet

Version No:1
Page 6 of 16
Section 6 - ACCIDENTAL RELEASE MEASURES

equipment before storing and re-using.

If contamination of drains or waterways occurs, advise emergency services.

Chemical Class: alcohols and glycols

For release onto land: recommended sorbents listed in order of priority.

SORBENT TYPE	RANK	APPLICATION	COLLECTION	LIMITATIONS
LAND SPILL	- SMALL			
cross- linked polymer - particulate	1	shovel	shovel	R, W, SS
cross- linked polymer - pillow	1	throw	pitchfork	R, DGC, RT
sorbent clay - particulate	2	shovel	shovel	R, I, P
wood fiber - pillow	3	throw	pitchfork	R, P, DGC, RT
treated wood fiber	3	throw	pitchfork	DGC, RT
- pillow foamed glass - pillow	4	throw	pichfork	R, P, DGC, RT
LAND SPILL	- MEDIUM			
cross- linked polymer - particulate	1	blower	skiploader	R, W, SS
polypropylene - particulate	2	blower	skiploader	W, SS, DGC
sorbent clay - particulate	2	blower	skiploader	R, I, W, P, DGC
polypropylene -	3	throw	skiploader	DGC, RT
mat expanded mineral -	3	blower	skiploader	R, I, W, P, DGC
particulate polyurethane - mat	4	throw	skiploader	DGC, RT

Legend

DGC: Not effective where ground cover is dense

R; Not reusable I: Not incinerable

P: Effectiveness reduced when rainy RT:Not effective where terrain is rugged

SS: Not for use within environmentally sensitive sites

W: Effectiveness reduced when windy

Reference: Sorbents for Liquid Hazardous Substance Cleanup and Control;

R.W Melvold et al: Pollution Technology Review No. 150: Noyes Data Corporation 1988.

EMERGENCY RESPONSE PLANNING GUIDELINES (ERPG)

The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to one hour WITHOUT experiencing or developing

GHS Safety Data Sheet

Version No:1 Page 7 of 16

Section 6 - ACCIDENTAL RELEASE MEASURES

life-threatening health effects is:

methanol 5000 ppm

irreversible or other serious effects or symptoms which could impair an individual's ability to take

protective action is: mag 0001 methanol

other than mild, transient adverse effects without perceiving a clearly defined odour is:

methanol 200 ppm

The threshold concentration below which most people will experience no appreciable risk of health effects:

methanol 200 ppm

American Industrial Hygiene Association (AIHA)

Ingredients considered according to the following cutoffs

Very Toxic (T+) >= 0.1% Toxic (T) >= 3.0% R50 >= 0.25% Corrosive (C) >= 5.0%

R51 >= 2.5% >= 10% else

where percentage is percentage of ingredient found in the mixture

SAFE STORAGE WITH OTHER CLASSIFIED CHEMICALS















May be stored together

May be stored together with specific preventions 0:

Must not be stored together X:

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

DO NOT allow clothing wet with material to stay in contact with skin.

- Avoid all personal contact, including inhalation.
- · Wear protective clothing when risk of exposure occurs.
- · Use in a well-ventilated area.
- · Prevent concentration in hollows and sumps.
- · DO NOT enter confined spaces until atmosphere has been checked.
- · Avoid smoking, naked lights, heat or ignition sources.
- · When handling, DO NOT eat, drink or smoke.
- · Vapour may ignite on pumping or pouring due to static electricity.
- · DO NOT use plastic buckets.
- · Earth and secure metal containers when dispensing or pouring product.
- · Use spark-free tools when handling.
- · Avoid contact with incompatible materials.
- · Keep containers securely sealed.
- · Avoid physical damage to containers.
- · Always wash hands with soap and water after handling.
- · Work clothes should be laundered separately.
- Use good occupational work practice.

GHS Safety Data Sheet

Version No:1
Page 8 of 16
Section 7 - HANDLING AND STORAGE

- · Observe manufacturer's storing and handling recommendations.
- · Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

SUITABLE CONTAINER

Glass container.

- · Packing as supplied by manufacturer.
- · Plastic containers may only be used if approved for flammable liquid.
- · Check that containers are clearly labelled and free from leaks.
- · For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.
- · For materials with a viscosity of at least 2680 cSt. (23 deg. C)
- · For manufactured product having a viscosity of at least 250 cSt. (23 deg. C)
- · Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C)
- (i): Removable head packaging;
- (ii): Cans with friction closures and
- (iii): low pressure tubes and cartridges may be used.
- · Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages
- · In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

STORAGE INCOMPATIBILITY

Avoid storage with strong acids, acid chlorides, acid anhydrides, oxidising agents. Incompatible with aluminium. DO NOT heat above 49 deg. C. in aluminium equipment. Avoid storage with reducing agents.

Avoid alkali metals, beryllium dihydride, isocyanates

acetaldehyde, ethylene oxide, chloroform and potassium t-butoxide.

Slowly corrosive to lead and aluminium.

STORAGE REQUIREMENTS

- · Store in original containers in approved flame-proof area.
- · No smoking, naked lights, heat or ignition sources.
- · DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- · Keep containers securely sealed.
- · Store away from incompatible materials in a cool, dry well ventilated area.
- · Protect containers against physical damage and check regularly for leaks.
- · Observe manufacturer's storing and handling recommendations.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

The following materials had no OELs on our records

• methanol:

CAS:58456- 46- 5 CAS:67- 56- 1 CAS:19710- 56- 6 CAS:7263- 60- 7 CAS:6853- 31- 2 CAS:79825- 55- 1 CAS:253142- 14- 2 CAS:54841- 71- 3

EMERGENCY EXPOSURE LIMITS

Material methanol

Revised IDLH Value (mg/m3)

Revised IDLH Value (ppm) 6, 000

GHS Safety Data Sheet

Version No:1
Page 9 of 16
Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ODOUR SAFETY FACTOR (OSF)

OSF=2 (METHANOL)

Exposed individuals are NOT reasonably expected to be warned, by smell, that the Exposure Standard is being exceeded.

Odour Safety Factor (OSF) is determined to fall into either Class C, D or E.

The Odour Safety Factor (OSF) is defined as:

OSF= Exposure Standard (TWA) ppm/ Odour Threshold Value (OTV) ppm Classification into classes follows:

Class A	OSF 550	Description Over 90% of exposed individuals are aware by smell that the Exposure Standard (TLV- TWA for example) is being reached, even when distracted by working activities
В	26- 550	As " A" for 50- 90% of persons being distracted
С	1- 26	As " A" for less than 50% of persons being distracted
D	0.18- 1	10- 50% of persons aware of being tested perceive by smell that the Exposure Standard is being reached
Е	<0.18	As " D" for less than 10% of persons aware of being tested

MATERIAL DATA

Odour Threshold Value: 4.2-5960 ppm (detection), 53.0-8940 ppm (recognition) NOTE: Detector tubes for methanol, measuring in excess of 50 ppm, are commercially available.

Exposure at or below the recommended TLV-TWA is thought to substantially reduce the significant risk of headache, blurred vision and other ocular and systemic effects.

PERSONAL PROTECTION









EYE

- · Safety glasses with side shields.
- · Chemical goggles.
- · Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC]

GHS Safety Data Sheet

Version No:1
Page 10 of 16
Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

NIOSH Current Intelligence Bulletin 59].

OTHER

- · Overalls.
- · PVC Apron.
- · PVC protective suit may be required if exposure severe.
- · Eyewash unit.
- · Ensure there is ready access to a safety shower.

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computer- generated selection: methanol

Protective Material CPI *.

BUTYL	A
BUTYL/NEOPRENE	Α
PVDC/PE/PVDC	Α
SARANEX- 23	Α
SARANEX- 23 2- PLY	Α
VITON/NEOPRENE	Α
TEFLON	Α
PE/EVAL/PE	Α
NEOPRENE	В
PVC	С
NEOPRENE/NATURAL	С
NAT+NEOPR+NITRILE	С
NITRILE	С
NATURAL+NEOPRENE	С
NATURAL RUBBER	С
PVA	С

A: Best Selection

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

RESPIRATOR

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Breathing Zone Level ppm (volume)	Maximum Protection Factor	Half- face Respirator	Full- Face Respirator
1000	10	AX- AUS	-
1000	50	-	AX- AUS
5000	50	Airline *	-
5000	100	-	AX- 2
10000	100	-	AX- 3
	100+		Airline**

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

GHS Safety Data Sheet

Version No:1 Page 11 of 16 Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

* - Continuous Flow

** - Continuous-flow or positive pressure demand.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.

For further information consult site specific your

Occupational Health and Safety Advisor.

ENGINEERING CONTROLS

For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion -resistant.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:

solvent, vapours, degreasing etc., evaporating

from tank (in still air).

aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) direct spray, spray painting in shallow booths. drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of

Air Speed:

0.25- 0.5 m/s (50- 100 f/min.)

0.5- 1 m/s (100- 200 f/min.)

1- 2.5 m/s (200- 500 f/min.)

Within each range the appropriate value depends on:

Lower end of the range

rapid air motion)

1: Room air currents minimal or favourable to capture

2: Contaminants of low toxicity or of nuisance value only.

3: Intermittent, low production.

4: Large hood or large air mass in motion

Upper end of the range

1: Disturbing room air currents

2: Contaminants of high toxicity

3: High production, heavy use

4: Small hood- local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Clear, colourless, very mobile, highly volatile, highly flammable, toxic liquid with a sweet alcoholic odour; mixes with water.

Burns with a non-luminous flame.

Miscible with ethanol, ether, benzene and most organic solvents.

GHS Safety Data Sheet

Version No:1
Page 12 of 16
Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Forms azeotropes with many compounds. Viscosity = 0.59 @ 20 C

PHYSICAL PROPERTIES

Liquid.

Mixes with water.

Toxic or noxious vapours/gas.

Molecular Weight: 32.04
Melting Range (°C): - 97.8
Solubility in water (g/L): Miscible pH (1% solution): Neutral

Volatile Component (%vol): ca 100 @ 20 C Relative Vapour Density (air=1): 1.1 Lower Explosive Limit (%): 5.5- 6.0 Autoignition Temp (°C): 385- (464 ICI)

State: Liquid

log Kow: -0.82- -0.66

Boiling Range (°C): 63.9- 65

Specific Gravity (water=1): 0.79 @ 20 C

pH (as supplied): Not applicable Vapour Pressure (kPa): 12.26 @ 20 C Evaporation Rate: 2.1 BuAc=1 Flash Point (°C): 11- 12(16.1 OC) Upper Explosive Limit (%): 31- 36.5 Decomposition Temp (°C): Not available.

Viscosity: Not Available

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

- · Presence of incompatible materials.
- · Product is considered stable.
- · Hazardous polymerisation will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual.

Limited evidence exists that exposure to the material may produce serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by swallowing.

Methanol may produce a burning or painful sensation in the mouth, throat, chest and stomach. This may be accompanied by nausea, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, drunken behaviour, visual disturbance, drowsiness, coma and death. Onset of symptoms may be delayed for several hours. Effects are due partly to acidosis and partly to cerebral oedema. Visual impairment produces blurring, double vision (diplopia), changes in colour perception, restriction of visual fields and blindness. 60-200 ml of methanol is a fatal dose for most adults with as little as 10 ml producing blindness. In massive overdose, liver, kidney, heart and muscle injury have been described.

EYE

Limited evidence or practical experience suggests, that the material may cause moderate eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged exposure may cause moderate

GHS Safety Data Sheet

Version No:1
Page 13 of 16
Section 11 - TOXICOLOGICAL INFORMATION

inflammation (similar to windburn) characterised by a temporary redness of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

SKIN

Skin contact with the material may produce toxic effects; systemic effects may result following absorption.

The material may produce moderate skin irritation; limited evidence or practical experience suggests, that the material either:

- · produces moderate inflammation of the skin in a substantial number of individuals following direct contact and/or
- produces significant, but moderate, inflammation when applied to the healthy intact skin of animals (for up to four hours), such inflammation being present twenty-four hours or more after the end of the exposure period.

Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Strong evidence exists that exposure to the material may produce serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by skin contact.

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man.

INHALED

Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce toxic effects.

Limited evidence exists that exposure to the material may produce serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by inhalation.

The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.

CHRONIC HEALTH EFFECTS

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Minor but regular methanol exposures may effect the central nervous system, optic nerves and retinae. Symptoms may be delayed, with headache, fatigue, nausea, blurring of vision and double vision. Continued or severe exposures may cause damage to optic nerves, which may become severe with permanent visual impairment even blindness resulting.

WARNING: Methanol is only slowly eliminated from the body and should be regarded as a cumulative poison which cannot be made non-harmful [CCINFO].

GHS Safety Data Sheet

Version No:1
Page 14 of 16
Section 11 - TOXICOLOGICAL INFORMATION

Long-term exposure to methanol vapour, at concentrations exceeding 3000 ppm, may produce cumulative effects characterised by gastrointestinal disturbances (nausea, vomiting), headache, ringing in the ears, insomnia, trembling, unsteady gait, vertigo, conjunctivitis and clouded or double vision. Liver and/or kidney injury may also result. Some individuals show severe eye damage following prolonged exposure to 800 ppm of the vapour.

TOXICITY AND IRRITATION

TOXICITY IRRITATION

Oral (human) LDLo: 143 mg/kg
Oral (man) LDLo: 6422 mg/kg
Oral (man) TDLo: 3429 mg/kg
Skin (rabbit): 20 mg/24 h- Moderate
Eye (rabbit): 40 mg- Moderate
Eye (rabbit): 100 mg/24h- Moderate

Oral (rat) LD50: 5628 mg/kg

Inhalation (human) TCLo: 86000 mg/m³ Inhalation (human) TCLo: 300 ppm Inhalation (rat) LC50: 64000 ppm/4h Dermal (rabbit) LD50: 15800 mg/kg

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

Section 12 - ECOLOGICAL INFORMATION

DO NOT discharge into sewer or waterways.

log Kow: -0.82- -0.66 Half-life (hr) air: 427

Half-life (hr) H2O surface water: 5.3-64

Henry's atm m³/mol: 1.35E-04 BOD 5 if unstated: 0.76-1.12

COD: 1.05-1.50,99%

ThOD: 1.5 BCF: 0.2-10

Toxicity Fish: LC50(96): 11-15mg/L

TLm(48Hr): 8000mg/L (trout)

Toxicity Arthropoda: NOEL 10 g/L/48Hr (Daphnia)) [ICI]

Section 13 - DISPOSAL CONSIDERATIONS

- · Recycle wherever possible.
- · Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- · Dispose of by: Burial in a licenced land-fill or Incineration in a licenced apparatus (after admixture with suitable combustible material).
- · Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
- · Containers may still present a chemical hazard/ danger when empty.
- · Return to supplier for reuse/ recycling if possible.

Otherwise:

- · If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- · Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

GHS Safety Data Sheet

Version No:1
Page 15 of 16
Section 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL PROCEDURES

• Collect the waste methanol quantities in a labelled nonhalogenated waste solvent container for incineration [Armour 1996].

SPILLAGE DISPOSAL

• Shut off all ignition sources. Clear area of personnel. Wear breathing apparatus if necessary, eye protection, protective clothing and butyl rubber gloves to control personal contact from methanol. Cover and contain the spill with a 1:1:1 mixture by weight of sodium carbonate, bentonite and sand. Scoop the absorbed contents into a container and add the contents to a container of water. Allow the solids to settle and decant the liquid portion into the drain with water and treat as normal refuse. Alternatively, package the solid and label for incineration.

Section 14 - TRANSPORTATION INFORMATION





Labels Required: FLAMMABLE LIQUID, TOXIC

HAZCHEM: 2WE

UNDG:

Dangerous Goods Class: 3 Subrisk: 6.1 UN Number: 1230 Packing Group: II

Shipping Name:METHANOL

Air Transport IATA:

ICAO/IATA Class: 3 ICAO/IATA Subrisk: 6.1 UN/ID Number: 1230 Packing Group: II

ERG Code: 3P

Shipping name: METHANOL

Maritime Transport IMDG:

IMDG Class:3IMDG Subrisk:6.1UN Number:1230Packing Group:II

EMS Number: F- E, S- D Shipping name:METHANOL

Section 15 - REGULATORY INFORMATION

REGULATIONS

methanol (CAS: 67-56-1) is found on the following regulatory lists; IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances International Council of Chemical Associations (ICCA) - High Production Volume List OECD Representative List of High Production Volume (HPV) Chemicals

GHS Safety Data Sheet

Version No:1 Page 16 of 16 Section 15 - REGULATORY INFORMATION

methanol (CAS: 19710-56-6) is found on the following regulatory lists; IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances

No data available for methanol as CAS: 58456-46-5, CAS: 7263-60-7, CAS: 6853-31-2, CAS: 79825-55-1, CAS: 253142-14-2, CAS: 54841-71-3.

Section 16 - OTHER INFORMATION

INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name methanol

CAS 58456- 46- 5, 67- 56- 1, 19710 - 56- 6, 7263-60- 7, 6853- 31- 2, 79825- 55- 1, 253142- 14- 2, 54841- 71- 3

REPRODUCTIVE HEALTH GUIDELINES

Established occupational exposure limits frequently do not take into consideration reproductive end points that are clearly below the thresholds for other toxic effects. Occupational reproductive guidelines (ORGs) have been suggested as an additional standard. These have been established after a literature search for the reproductive no -observed-adverse effect-level (NOAEL) and the lowest-observed-adverse-effect-level (LOAEL). In addition the US EPA's procedures for risk assessment for hazard identification and dose-response assessment as applied by NIOSH were used in the creation of such limits. Uncertainty factors (UFs) have also been incorporated.

Ingredient ORG UF Endpoi CR Adeq nt TLV methanol 262 mg/m3 NA NA NA Yes

These exposure guidelines have been derived from a screening level of risk assessment and should not be construed as unequivocally safe limits. ORGS represent an 8-hour time -weighted average unless specified otherwise.

CR = Cancer Risk/10000; UF = Uncertainty factor:

TLV believed to be adequate to protect reproductive health:

LOD: Limit of detection

Toxic endpoints have also been identified as:

D = Developmental; R = Reproductive; TC = Transplacental carcinogen Jankovic J., Drake F.: A Screening Method for Occupational Reproductive American Industrial Hygiene Association Journal 57: 641-649 (1996).

The above information is believed to be accurate and represent the best information currently available to us, but does not represent any warranty expressed or implied of the properties of the product. User should make their own investigation to determine the suitability of the information for their particular purpose.

Issue Date: 26-Mar-2018



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

MIXED BED RESIN

Version number: GHS 6.0 revision: 18.08.2017 Replaces version of: 18.08.2017 (GHS 5)

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

1.1 **Product identifier**

> Trade name Mixed Bed Resin Registration number (REACH) not relevant (mixture)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses professional use

1.3 Details of the supplier of the safety data sheet

> Marine Care B.V. Oude Maasweg 35, Port number 4005 3197 KJ Rotterdam-Botlek Netherlands

Telephone: +(31) 10 29 50 342 e-mail: operations@marinecare.nl Website: www.marinecare.nl

1.4 **Emergency telephone number**

> Emergency information service +(31) 10 29 50 342

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard state- ment
3.3	serious eye damage/eye irritation	Cat. 1	(Eye Dam. 1)	H318

Remarks

For full text of H-phrases: see SECTION 16.

Code	Safety phrases (S-phrases)
S26	in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S39	wear eye/face protection

Label elements 2.2

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word **Danger Pictograms**

GHS05

Hazard statements

H318 Causes serious eye damage.

2.3 Other hazards

There is no additional information.

Netherlands Page 1 / 9

MARINECARE 280 SDS-01



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

MIXED BED RESIN

Version number: GHS 6.0 revision: 18.08.2017 Replaces version of: 18.08.2017 (GHS 5)

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
styrene-divinylbenzene-co- polymer with trialkyl am- monium groups in OH-form	CAS No 69011-18-3	30 - < 62,5	Eye Dam. 1 / H318	
styrene-divinylbenzene-co- polymer with sulphonic acid groups in H-form	CAS No 69011-20-7	30 - < 62,5	Eye Dam. 1 / H318	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

Netherlands
MARINECARE 280 SDS-01

Page 2 / 9



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

MIXED BED RESIN

Version number: GHS 6.0 revision: 18.08.2017 Replaces version of: 18.08.2017 (GHS 5)

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

foam, fire extinguishing powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

nitrogen oxides (NOx)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 **Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains. - Take up mechanically.

Advices on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

Warning

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Netherlands Page 3 / 9



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

MIXED BED RESIN

Version number: GHS 6.0

Replaces version of: 18.08.2017 (GHS 5)

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

revision: 18.08.2017

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

• Explosive atmospheres

Removal of dust deposits.

Incompatible substances or mixtures

Observe hints for combined storage.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

No information available.

8.2 **Exposure controls**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

hand protection

Wear protective gloves.

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

Netherlands Page 4 / 9

MARINECARE 280 SDS-01



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

MIXED BED RESIN

Version number: GHS 6.0 revision: 18.08.2017 (GHS 5)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state solid

Colour Brownish/ Black
Odour Amine like

Other physical and chemical parameters

pH (value) 6-9

Melting point/freezing pointnot determinedInitial boiling point and boiling rangenot determinedFlash pointnot applicableEvaporation ratenot determined

Flammability (solid, gas) Product is combustible

non-flammable not determined

Explosion limits of dust clouds not determined Vapour pressure not determined

Density 1,2 ^{kg}/_l

Solubility(ies) not determined

Partition coefficient

n-octanol/water (log KOW) this information is not available

Auto-ignition temperature not determined

Viscosity not relevant (solid matter)

Explosive properties none Oxidising properties none

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

Netherlands
MARINECARE 280 SDS-01

Page 5 / 9



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

MIXED BED RESIN

Version number: GHS 6.0 Replaces version of: 18.08.2017 (GHS 5) revision: 18.08.2017

Incompatible materials

There is no additional information.

Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

Information on toxicological effects 11.1

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula)

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 **Toxicity**

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

Netherlands Page 6 / 9



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

MIXED BED RESIN

Version number: GHS 6.0 revision: 18.08.2017 Replaces version of: 18.08.2017 (GHS 5)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. **Waste treatment of containers/packagings**

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number (not subject to transport regulations)

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es)

Class

ass -

14.4 Packing group not relevant

14.5 Environmental hazards none (non-environmentally hazardous acc. to the dangerous

goods regulations)

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

• International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

• International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)
 - Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 0 %

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 0 %

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

Netherlands Page 7 / 9

MARINECARE 280 SDS-01



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

MIXED BED RESIN

Version number: GHS 6.0 revision: 18.08.2017 Replaces version of: 18.08.2017 (GHS 5)

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EÚ GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Netherlands Page 8 / 9



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

MIXED BED RESIN

Version number: GHS 6.0 revision: 18.08.2017 Replaces version of: 18.08.2017 (GHS 5)

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H318	Causes serious eye damage.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Page 9 / 9