

Safety Data Sheet VERSACOAT[†]

1. Identification

1.1 Product identifier

Product name VERSACOAT[†]
Product code 10140

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

Recommended Use Emulsifier
Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier
M-I PRODUCTION TECHNOLOGIES
A Business Unit of M-I L.L.C.
P.O. Box 42842
Houston, TX 77242
www.miswaco.slb.com

Prepared by
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1.4 Emergency Telephone Number

Emergency telephone (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600
Telephone Number - 281-561-1511

2. Hazards identification

2.1 Classification of the substance or mixture

GHS - Classification

Health hazards

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 3
Acute inhalation toxicity - vapor	Category 3
Specific target organ toxicity (single exposure)	Category 1

Environmental hazards Not classified

Physical Hazards

Flammable Liquids	Category 3
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2.2 Label elements



Signal word

DANGER

Hazard statements

H302 - Harmful if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H370 - Causes damage to organs
H226 - Flammable liquid and vapor

Precautionary statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P307 + P311 - IF exposed: Call a POISON CENTER or doctor/ physician
P309 - IF exposed or if you feel unwell:
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/container in accordance with local regulations.

Supplementary precautionary statements

P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P311 - Call a POISON CENTER or doctor/physician
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P322 - Specific measures (see supplemental first aid instructions on this label)
P330 - Rinse mouth
P361 - Remove/ Take off immediately all contaminated clothing
P363 - Wash contaminated clothing before reuse
P403 + P235 - Store in a well-ventilated place. Keep cool

Unknown acute toxicity

21% of the mixture consists of ingredient(s) of unknown toxicity.

3. Composition/information on Ingredients

3.1 Substances

Not Applicable

3.2 Mixtures

Component	CAS-No	Weight % - range
Fatty acids, tall-oil, reaction products with diethylenetriamine, maleic anhydride, tetraethylenepentamine and triethylenetetramine	68990-47-6	60 - 100
Petroleum distillates, hydrotreated light	64742-47-8	10 - 30
Methyl alcohol	67-56-1	5 - 10

Comments

The exact percentage (concentration) of composition has been withheld as a trade secret

4. First aid measures

4.1 First-Aid Measures

Inhalation	Move to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.
Ingestion	Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.
Skin contact	Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms

Inhalation	Please see Section 11. Toxicological Information for further information.
Ingestion	Please see Section 11. Toxicological Information for further information.
Skin contact	Please see Section 11. Toxicological Information for further information.
Eye contact	Please see Section 11. Toxicological Information for further information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Ethanol may be administered in an IV solution to counteract the adverse effects of methanol ingestion. Fomepizole (Antizol) may also be used for treatment of methanol poisoning.
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5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Fog, Alcohol Foam, CO₂, Dry Chemical.

Extinguishing media which shall not be used for safety reasons

None known.

5.2 Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may form explosive mixtures with air.

Hazardous combustion products

Carbon oxides (CO_x), Nitrogen oxides (NO_x).

5.3 Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Evacuate personnel to safe areas. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become very slippery.

6.2 Environmental precautions

Do not allow spilled material to enter sewers, storm drains or surface waters.

Environmental exposure controls

No information available.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use clean non-sparking tools to collect absorbed material. Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

No information available.

7. Handling and storage

7.1 Precautions for safe handling

Handling

Keep away from heat, sparks and open flame. No smoking. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Ensure adequate ventilation.

Storage precautions

Keep away from open flames, hot surfaces and sources of ignition. Keep container/package tightly closed and in a well-ventilated place. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

8. Exposure controls/personal protection

8.1 Control parameters

Component	ACGIH TLV	OSHA PEL
Fatty acids, tall-oil, reaction products with diethylenetriamine, maleic anhydride, tetraethylenepentamine and triethylenetetramine	Not Determined	Not Determined
Petroleum distillates, hydrotreated light	Not Determined	Not Determined
Methyl alcohol	200 ppm; 250 ppm (STEL)	200 ppm; 260 mg/m ³

8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

Engineering measures to reduce exposure

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection

Tightly fitting safety goggles.

Hand protection

Viton, polyvinyl alcohol or nitrile-butyl rubber gloves.

Respiratory protection

This product contains methyl alcohol. Chemical cartridge respirators have short service life or are not effective against methyl alcohol. The recommended respiratory protection for methyl alcohol is a supplied air (SA) respirator. Under normal conditions of handling and use of this product as an oilfield additive, it is not anticipated that a supplied air respirator would be necessary. However, selection of respiratory protection should be based on a risk assessment of the workplace.

Skin and body protection

Wear appropriate personal protective clothing to prevent skin contact.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Transparent
Odor	Ammoniacal
Color	Dark Amber
Odor threshold	Not applicable

Property	Values	Remarks
pH	7	
pH @ dilution		
Melting/freezing point		
Boiling point/range	No information available	
Flash point	27 °C / 82 °F	PMCC

Evaporation rate (BuAc =1)	No information available
Flammability (solid, gas)	Not Applicable
Flammability Limits in Air	
Upper flammability limit	No information available
Lower flammability limit	No information available
Vapor pressure	No information available
Vapor density	>1 @ Air = 1
Specific gravity	0.87 @20°C - 0.97
Bulk density	No information available
Water solubility	Negligible
Solubility in other solvents	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Log Pow	No information available
Explosive properties	No information available
Oxidizing properties	No information available

9.2 Other information

Pour point	No information available
Molecular weight	No information available
VOC content(%)	No information available
Density	No information available

10. Stability and reactivity

10.1 Reactivity

No specific reactivity hazards associated with this product.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Keep away from sources of ignition - No smoking.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon oxides (COx). Nitrogen oxides (NOx).

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation	May cause irritation of respiratory tract. Vapors inhaled in high concentration have a narcotic effect on the central nervous system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
Eye contact	Severely irritating to eyes.
Skin contact	Causes skin irritation. May be absorbed through the skin in harmful amounts. Prolonged skin contact may defat the skin and produce dermatitis.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause adverse cardiac effects, blood disturbances, and metabolic acidosis. Intoxication can lead to a coma with metabolic acidosis that may be fatal.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fatty acids, tall-oil, reaction products with diethylenetriamine, maleic anhydride, tetraethylenepentamine and triethylenetetramine	No data available	No data available	No data available
Petroleum distillates, hydrotreated light	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Methyl alcohol	= 5628 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	= 64000 ppm (Rat) 4 h = 83.2 mg/L (Rat) 4 h

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Fatty acids, tall-oil, reaction products with diethylenetriamine, maleic anhydride, tetraethylenepentamine and triethylenetetramine	No data available	No data available	No data available	No data available
Petroleum distillates, hydrotreated light	No data available	No data available	No data available	No data available
Methyl alcohol	No data available	No data available	No data available	No data available

Sensitization	This product does not contain any components suspected to be sensitizing.
Mutagenic effects	No evidence of mutagenic properties.
Carcinogenicity	No evidence of carcinogenic properties.
Reproductive toxicity	No evidence of toxicity to reproduction.
Developmental toxicity	Not known to cause birth defects or have a deleterious effect on a developing fetus.
Routes of exposure	Inhalation. Skin contact. Eye contact. Ingestion.
Routes of entry	Inhalation. Skin absorption. Ingestion.
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Not classified.
Neurological effects	Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions.
Target organ effects	Liver. Kidney. Spleen. Heart. Central nervous system. Blood. Optic nerve (nervus opticus).
Aspiration hazard	Not Applicable.

12. Ecological information

12.1 Toxicity

Toxicity to algae

See component information below.

Toxicity to fish

See component information below.

Toxicity to daphnia and other aquatic invertebrates

See component information below.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Fatty acids, tall-oil, reaction products with diethylenetriamine, maleic anhydride, tetraethylenepentamine and triethylenetetramine 68990-47-6 (60 - 100)	No information available	No information available	No information available
Petroleum distillates, hydrotreated light 64742-47-8 (10 - 30)	2.2 mg/L LC50 (Lepomis macrochirus) = 96 h 45 mg/L LC50 (Pimephales promelas) = 96 h 2.4 mg/L LC50 (Oncorhynchus mykiss) = 96 h	No information available	4720 mg/L LC50 (Daphnia magna) = 96 h
Methyl alcohol 67-56-1 (5 - 10)	28200 mg/L LC50 (Pimephales promelas) = 96 h 100 mg/L LC50 (Pimephales promelas) = 96 h 19500 - 20700 mg/L LC50 (Oncorhynchus mykiss) = 96 h 18 - 20 mL/L LC50 (Oncorhynchus mykiss) = 96 h 13500 - 17600 mg/L LC50 (Lepomis macrochirus) = 96 h	No information available	No information available

12.2 Persistence and degradability

No product level data available.

12.3 Bioaccumulative potential

No product level data available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other adverse effects.

None known.

13. Disposal considerations

13.1 Waste treatment methods

Disposal Method	Disposal should be made in accordance with federal, state and local regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal. Do not burn, or use a cutting torch on, the empty drum. Empty containers may contain flammable or explosive vapors.

14. Transport information

14.1 UN Number

UN/ID No. (ADR/RID/ADN/ADG)	UN1992
UN No. (IMDG)	UN1992
UN No. (ICAO)	UN1992
UN No. (DOT)	UN1992

14.2 Proper shipping name

FLAMMABLE LIQUID, TOXIC, N.O.S. (contains methanol),

14.3 Hazard class(es)

ADR/RID/ADN Hazard class	3 (6.1)
IMDG Hazard class	3 (6.1)
ICAO Hazard class/division	3 (6.1)
DOT Hazard class	3 (6.1)

14.4 Packing group

ADR/RID/ADN Packing Group	III
IMDG Packing group	III
ICAO Packing group	III
DOT Packing group	III



Marine pollutant

No

14.6 Special precautions

Not Applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International inventories

USA (TSCA)	Complies
European Union (EINECS and ELINCS)	Complies
Canada (DSL)	Complies
Philippines (PICCS)	Complies
Japan (ENCS)	Does not Comply
China (IECSC)	Complies
Australia (AICS)	Does not Comply
Korean (KECL)	Complies
New Zealand (NZIoC)	Complies

U.S. Federal and State Regulations

SARA 311/312 Hazard Categories

Fire hazard. Immediate (acute) health hazard. Delayed (chronic) health hazard.

Component	SARA 302 / TPQs	SARA 313	CERCLA RQ
Fatty acids, tall-oil, reaction products with diethylenetriamine, maleic anhydride, tetraethylenepentamine and triethylenetetramine	N/A	N/A	N/A
Petroleum distillates, hydrotreated light	N/A	N/A	N/A
Methyl alcohol	N/A	1.0 %	5000 lb final RQ 2270 kg final RQ

State Comments

Proposition 65: This product is not known to contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer and/or reproductive toxicity at levels that are expected to pose a significant risk under anticipated use conditions.

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

WHMIS Hazard Class B2 (Flammable Liquids) D1B (Immediate and Serious Toxic Effects - Toxic Material) D2B (Other Toxic Effects - Toxic Material)

16. Other information

Supersedes date 12/Dec/2013

Revision date 30/Jan/2015

Version 8

HMIS classification

Health 2*
Flammability 3

Physical hazard	0
PPE	J

N/A - Not Applicable, N/D - Not Determined.

Disclaimer

The information contained herein is considered in good faith as reliable of the date issued and is based upon on measurements, tests or data derived from supplier's own study or furnished by others. In providing this SDS information, Supplier makes no express or implied warranties as to the information or product; merchantability or fitness of purpose; any express or implied warranty; or non-infringement of intellectual property rights; and supplier assumes no responsibility for any direct, special or consequential damages, results obtained, or the activities of others. To the maximum extent permitted by law, supplier's warranty obligations and buyer's sole remedies are as stated in separate agreement between the parties.