

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 8/27/2024 Version: 1.0

## **SECTION 1: Identification**

1.1. Identification	
Product form Trade name Product code	: Mixture : TMC Reference Fluid JFLUB : JFA & JFB
1.2. Recommended use and restrictions on	l use
Recommended use Restrictions on use	<ul><li>Research fluid for laboratory reference testing</li><li>All other uses not recommended above</li></ul>
1.3. Supplier	
Test Monitoring Center 203 Armstrong Dr. Freeport, 16229 Pennsylvania T 412-365-1000 <u>ghs-sds@astmtmc.org</u>	
1.4. Emergency telephone number	
Emergency number	: For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, Transport or Accident Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virgina, USA) CCN 1004806
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	ture

#### **GHS US classification**

Aspiration hazard Category 1 Full text of H statements : see section 16 May be fatal if swallowed and enters airways

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)

- : Danger
- : May be fatal if swallowed and enters airways
- : If swallowed: Immediately call a poison center or doctor.

Do NOT induce vomiting.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

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#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

### **SECTION 3: Composition/Information on ingredients**

## 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Distillates (petroleum), hydrotreated light	CAS-No.: 64742-47-8	90 – 100	Asp. Tox. 1, H304
Full text of hazard classes and H-statements : see section 16			

#### **SECTION 4: First-aid measures** 4.1. Description of first aid measures First-aid measures general : Call a physician immediately. First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth. First-aid measures after inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is unconscious : Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. Call a physician immediately. First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. First-aid measures after ingestion Call a physician immediately. Rinse mouth out with water. Do NOT induce vomiting. If vomiting : occurs, the head should be kept low so that vomit does not enter the lungs. 4.2. Most important symptoms and effects (acute and delayed) Symptoms/effects after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use. Symptoms/effects after skin contact · Not expected to present a significant skin hazard under anticipated conditions of normal use. Symptoms/effects after eye contact Not expected to present a significant eye contact hazard under anticipated conditions of normal use Symptoms/effects after ingestion Risk of lung edema. Most Important Symptoms/Effects : Risk of product entering the lungs on vomiting after ingestion.

#### 4.3. Immediate medical attention and special treatment, if necessary

IF exposed or concerned: Get medical advice/attention. Risk of product entering the lungs on vomiting after ingestion.

### **SECTION 5: Fire-fighting measures**

5.1. Suitable (and unsuitable	) extinguishing media
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Suitable extinguishing media	:	Dry chemical, CO2, or water spray or regular foam.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

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5.2. Specific hazards arising from the chemical			
Fire hazard Hazardous decomposition products in case of fire	<ul> <li>No fire hazard.</li> <li>Toxic fumes may be released. Carbon dioxide. Carbon monoxide.</li> </ul>		
5.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Cool affected containers with flooding quantities of water. Prevent fire-fighting water from entering environment.		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

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6.1. Personal precautions, protective equip	ment and emergency procedures
General measures	: Avoid all personal contact including breathing in the mist, spray, vapors. Do not take actions involving personal risks. Absorb spillage to prevent material-damage. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, remove ignition sources, ventilate area. Prevent other non-emergency personnel from entering the danger area.
6.1.2. For emergency responders	
Protective equipment	: Wear the recommended personal protective equipment. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate personnel to a safe area. Do not touch spilled material. Stop leak if safe to do so. Ventilate spillage area. Prevent runoff from entering drains, sewers or waterways.

#### 6.2. Environmental precautions

Do not let the product reach soil, drains, sewers, or surface and ground water.

6.3. Methods and material for containment and cleaning up			
For containment	: Contain with non-combustible inert absorbent. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.		
Methods for cleaning up	: Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed Precautions for safe handling Hygiene measures	<ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Ensure good ventilation of the work station. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes and clothing. Avoid breathing mist, spray, vapors. Take precautionary measures against static discharge.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.</li> </ul>
7.2. Conditions for safe storage, including a	ny incompatibilities
Storage conditions	: Store in a cool, dry and well-ventilated area away from incompatible substances. Keep container closed when not in use. Keep away from ignition sources. Keep upright.
Incompatible materials	: Strong oxidizers.
Packaging materials	Store always product in container of same material as original container.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

TMC Reference Fluid JFLUB		
No additional information available		
Distillates (petroleum), hydrotreated light (64742-47-8)		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls	: Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation, or process enclosure to keep the airborne concentrations below the permissible exposure limits. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.	
Environmental exposure controls	: Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.	

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

Hand protection:
Wear protective gloves. Wear suitable gloves resistant to chemical penetration
Eye protection:
Wear safety glasses which protect from splashes
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Self-contained breathing apparatus

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Personal protective equipment symbol(s):



## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	:	Liquid.
Appearance	:	Clear.
Color	:	Pale yellow
Odor	:	Faint odour
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	218 (≥ 277) °C (424.4 - 530.6 °F)
Flash point	:	> 95 °C (203 °F)
Relative evaporation rate (butyl acetate=1)	:	< 0.01
Flammability (solid, gas)	:	Not applicable.
Vapor pressure	:	0.02 mm Hg (20 °C / 68 °F)
Relative vapor density at 20°C	:	< 6.7
Relative density	:	No data available
Density	:	0.79 g/cm³ (15.6 °C / 60.1 °F)
Solubility	:	Negligible in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	> 200 °C
Decomposition temperature	:	No data available
Viscosity, kinematic	:	2.7 mm²/s (40 °C / 104 °F)
Viscosity, dynamic	:	No data available
Explosion limits	:	Lower explosion limit: 0.6 vol %
		Upper explosion limit: 5 vol %
Explosive properties	:	No data available
Oxidizing properties	:	No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Heat. No flames, no sparks. Eliminate all sources of ignition. Incompatible materials.

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#### 10.5. Incompatible materials

#### Strong oxidizers.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

## **SECTION 11: Toxicological information**

11.1. Information on toxicological effe	cts	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified	
Distillates (petroleum), hydrotreated	ight	
LD50 oral rat	> 5000 mg/kg body weight	
LD50 dermal rabbit	> 2000 mg/kg body weight	
LC50 Inhalation - Rat	> 5.28 mg/l air	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Distillates (petroleum), hydrotreated	ight	
NOAEL (animal/male, F0/P)	≥ 3000 mg/kg body weight	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Distillates (petroleum), hydrotreated	light	
NOAEL (oral,rat,90 days)	750 mg/kg body weight	
NOAEL (dermal,rat/rabbit,90 days)	≥ 495 mg/kg body weight	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Viscosity, kinematic	: 2.7 mm²/s (40 °C / 104 °F)	
Symptoms/effects after inhalation	: Not expected to present a significant hazard under anticipated conditions of normal use.	
Symptoms/effects after skin contact	Not expected to present a significant skin hazard under anticipated conditions of normal use.	
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.	
Symptoms/effects after ingestion	: Risk of lung edema.	
Most Important Symptoms/Effects	: Risk of product entering the lungs on vomiting after ingestion.	

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology	- ge	eneral
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: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Disposal methods			
Regional waste regulation	: Disposal must be done according to official regulations.		
Sewage disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions. : Disposal must be done according to official regulations.		
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.		
Additional information	: Do not re-use empty containers.		
Ecological waste information	: Avoid release to the environment.		

## **SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA				
DOT	IMDG	ΙΑΤΑ		
14.1. UN number				
Not regulated for transport				
14.2. Proper Shipping Name				
Not regulated	Not regulated	Not regulated		
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated		
14.4. Packing group				
Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated		
No supplementary information available				
44.C. Creatial analysis of familians				

#### 14.6. Special precautions for user

DOT

Not regulated

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#### IMDG

Not regulated

#### ΙΑΤΑ

Not regulated

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

Not applicable

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

#### CANADA

Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### National regulations

#### Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

#### **SECTION 16: Other information**

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Full text of hazard classes and H-statements	
H304	May be fatal if swallowed and enters airways

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.