SAFETY DATA SHEET

Issuing date 06-Jan-2015 Revision Date 5-Aug-2015 Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **COMPANY/UNDERTAKING**

Product identifier

JÏIJ Product Code(s)

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

Oilfield Chemical Recommended use No information available Uses advised against

1.3 Details of the supplier of the safety data sheet
Distributor: Tifco Industries, Inc
Address: PO Box 40277 Houston, TX 77240

281-571-6000

Website: www.tifco.com

1.4. Emergency telephone number

For emergencies in U.S. call Chem-Tel anytime at 1-800-255-3924

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

PEGILI ATION (EC) No 1272/2008

REGULATION (EC) NO 12/2/2006	
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Chronic aquatic toxicity	Category 2
Physical hazards Flammable liquids	Category 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

Symbol(s)

Not dangerous

2.2 Label Elements



Signal Word

Warning

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008)

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

2.3 Other information

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

- 2	11 Oubotanooo						
	Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
	Nonionic Surfactant	-	61791-08-0	10-40	-		No data available
	Citrus Terpenes	Present	94266-47-4	10-40	-		No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

Additional information

Terpenes may be listed as CAS# 68647-72-3

4. FIRST AID MEASURES

4.1 Description of first-aid measures

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Ingestion

Call a physician or Poison Control Center immediately. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician.

Protection of First-aiders

Remove all sources of ignition. Use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed.

Notes to physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Use CO2, dry chemical, or foam.

Extinguishing media which shall not be used for safety reasons

No information available.

5.2 Special hazards arising from the substance or mixture

Special Hazard

May be ignited by heat, sparks or flames.

5.3 Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.

See Section 12 for additional Ecological information.

6.2 Environmental precautions

Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

Soak up with inert absorbent material. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal. Do not flush into surface water or sanitary sewer system.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Do not breathe vapors or spray mist. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

7.3 Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Guidelines

Orange Terpenes 8h TWA=30 ppm (AIHA Standard)

Exposure limits

 Derived No Effect Level (DNEL)
 No information available

 Predicted No Effect Concentration (PNEC)
 No information available

8.2 Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Personal protective equipment

Eye Protection Safety glasses with side-shields. Goggles.

Hand Protection Impervious gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn.

Hygiene measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing.

Environmental Exposure Controls Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State Liquid Appearance clear

Odor Citrus Color yellow - amber

Property Values Remarks/ Method Hq No data available **Freezing Point** No data available Boiling point/boiling range No data available **Flash Point** 54.4 °C / 130 °F ASTM D7094 **Evaporation rate** No data available Flammability (solid, gas) No data available No data available Flammability Limits in Air

upper flammability limit lower flammability limit

Vapor pressureNo data availableVapor densityNo data available

Relative density 0.972-0.984 @ 25 °C

Water solubility Soluble in water

Solubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data availableAutoignition temperatureNo data availableDecomposition temperatureNo data availableViscosity, kinematicNo data available

Explosive properties No data available Oxidizing Properties No data available

Softening point Molecular Weight

VOC Content No data available

Density Bulk Density

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to Avoid

Heat, flames and sparks.

10.5 Incompatible Materials

Strong oxidizing agents. Strong acids. Alkali metals.

10.6 Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product Information

Inhalation Vapors may be irritating to eyes, nose, throat, and lungs. Inhalation of vapors is irritating to

the respiratory system, may cause throat pain and cough.

Eye contact Avoid contact with eyes. Severely irritating to eyes.

Skin contact May cause irritation. Prolonged skin contact may defat the skin and produce dermatitis.

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic toxicity

Carcinogenicity No known carcinogens are present at greater than 0.1%

Sensitization May cause sensitization of susceptible persons

Reproductive toxicity

No information available

Mutagenic effects No information available

Developmental Toxicity No information available

Teratogenicity No information available

Target Organ EffectsNo information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects The environmental impact of this product has not been fully investigated.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

Contaminated packaging Do not re-use empty containers.

EWC Waste Disposal No: According to the European Waste Catalogue, Waste Codes are

not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the

product was used

14. TRANSPORT INFORMATION

Note DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2)".

DOT

Packaging size <119 gal
Proper shipping name Not Regulated

Packaging size >119 gal

Proper shipping name Terpene Hydrocarbons, n.o.s.

Hazard class 3 UN/ID No UN2319 Packing Group PG III

IMDG/IMO

Proper shipping name Terpene Hydrocarbons, n.o.s.

Hazard class 3 UN/ID No UN2319 Packing Group PG III

ADR/RID

Proper shipping name Terpene Hydrocarbons, n.o.s.

Hazard class 3 UN/ID No UN2319 Packing Group PG III

ICAO/IATA

UN/ID No UN2319

Proper shipping name Terpene Hydrocarbons, n.o.s.

Hazard class 3 Packing Group PG III

15. REGULATORY INFORMATION

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

TSCA Complies

EINECS/ELINCS -

DSL/NDSL Complies

PICCS ENCS IECSC AICS KECL -

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical Safety Assessment

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Chemical Name	WHMIS Hazard Class
Nonionic Surfactant	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION					
<u>NFPA</u>	Health Hazard 1	Flammability 2	Stability 0	Physical and chemical hazards -	
	HMIS	Health Hazard 1	Flammability 2	Physical Hazard 0	

Personal protection - .



Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

Prepared By HSE Department

Issuing date 06-Jan-2015

Revision Date 5-Aug-2015

Revision Note Not Applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

US Only: This safety data sheet complies with the requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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