



MATERIAL SAFETY DATA SHEET

Issuing date 02-Oct-2002

Revision Date 13-Jul-2011

Version 1

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

1.1 Product identifier

Product name ACI-130

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

Recommended Use Oilfield Chemical

Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

Supplier

CESI Chemical
1004 S. Plainsman Road
Marlow, OK 73055
Phone (580) 658-6608
Fax (580) 658-3223

CESI Chemical, Holland Branch
Waanderweg 64
7812 HZ, Emmen
The Netherlands
Phone +31 (0) 591-677550

For further information, please contact:

E-mail Address information@cesichem.com

1.4 Emergency telephone number

Emergency telephone US: 1-405-282-8510
EU: (0031)(0)30-2748888

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 2
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ systemic toxicity (single exposure)	Category 1
Chronic aquatic toxicity	Category 3
Ozone	Not applicable
Physical hazards Flammable liquids	Category 2

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)

T - Toxic

R-code(s)

T;R39/23/24/25 - T;R23/24/25 - Xi;R36/38 - R52-53

Risk Combination Phrases

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R36/38 - Irritating to eyes and skin

R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

2.2 Label Elements



Signal Word

Danger

Hazard Statements

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H370 - Causes damage to organs

H412 - Harmful to aquatic life with long lasting effects

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

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P361 - Remove/ Take off immediately all contaminated clothing

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P307 + P311 - IF exposed: Call a POISON CENTER or doctor/ physician

2.3 Other information

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number

Methyl alcohol	200-659-6	67-56-1	30-60	F; R11 T; R23/24/25-39/23/24/25	No data available
Propargyl alcohol	203-471-2	107-19-7	5-10	R10 T; R23/24/25 C; R34 N; R51-53	No data available

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

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. Consult 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. Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Inhalation

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

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

None in particular.

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. Keep out of waterways.

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. Use clean non-sparking tools to collect absorbed material. 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. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep in properly labeled containers. Keep in a dry, cool and well-ventilated place.

7.3 Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³
Propargyl alcohol 107-19-7	TWA: 1 ppm		TWA: 1 ppm TWA: 2 mg/m ³

Exposure limits

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³	STEL: 250 ppm STEL: 333 mg/m ³ TWA: 200 ppm TWA: 266 mg/m ³	VME: 200 ppm VME: 260 mg/m ³ VLCT: 1000 ppm VLCT: 1300 mg/m ³		MAK: 200 ppm MAK: 270 mg/m ³ Ceiling / Peak: 800 ppm Ceiling / Peak: 1080 mg/m ³ TWA: 200 ppm TWA: 270 mg/m ³
Propargyl alcohol 107-19-7		STEL: 3 ppm STEL: 7 mg/m ³ TWA: 1 ppm TWA: 2.3 mg/m ³	VME: 1 ppm VME: 2 mg/m ³		MAK: 2 ppm MAK: 4.7 mg/m ³ Ceiling / Peak: 4 ppm Ceiling / Peak: 9.4 mg/m ³ TWA: 2 ppm TWA: 4.7 mg/m ³
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Methyl alcohol 67-56-1					TWA: 200 ppm TWA: 260 mg/m ³ Skin

Propargyl alcohol 107-19-7					TWA: 1 ppm TWA: 2.5 mg/m ³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Methyl alcohol 67-56-1	Skin STEL 800 ppm STEL 1040 mg/m ³ MAK: 200 ppm MAK: 260 mg/m ³	STEL: 800 ppm STEL: 1040 mg/m ³			
Propargyl alcohol 107-19-7	Skin STEL 4 ppm STEL 9.4 mg/m ³ MAK: 2 ppm MAK: 4.7 mg/m ³	STEL: 4 ppm STEL: 9.4 mg/m ³			

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

Tightly fitting safety goggles. 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

Do not eat, drink or smoke when using this product. Provide regular cleaning of equipment, work area and clothing.

Environmental Exposure Controls The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State

Liquid

Appearance

No information available

Odor

sweet, Alcohol

Color

clear amber

Property

Values

Remarks/ Method

pH

4-6

Melting point/range

-28.9 °C / -20 °F

Boiling point/boiling range

No data available

Flash Point

10 °C / 50 °F

Closed cup

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Flammability Limits in Air

No data available

upper flammability limit

lower flammability limit

Vapor pressure

No data available

Vapor density

No data available

Relative density

0.891

Water solubility

dispersible

No data available

Solubility in other solvents

No data available

Partition coefficient: n-octanol/water

No data available

Autoignition temperature

No data available

Decomposition temperature

No data available

Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing Properties	No data available
Softening point	
Molecular Weight	
VOC Content	No data available
Density	
Bulk Density	7.42 lbs/gal

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

Oxidizing agents. Strong reducing agents.

10.6 Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product Information

Inhalation	Inhalation of vapors is irritating to the respiratory system, may cause throat pain and cough. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.
Eye contact	Severely irritating to eyes. May cause redness, itching, and pain. May cause irreversible eye damage.
Skin contact	May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis. May be absorbed through the skin in harmful amounts.
Ingestion	Harmful if swallowed. May cause drowsiness or dizziness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h
Propargyl alcohol	20 mg/kg (Rat)	16 mg/kg (Rabbit)	

Chronic toxicity

Carcinogenicity

Contains no ingredient listed as a carcinogen

Sensitization

No information available

Reproductive toxicity	No information available
Mutagenic effects	No information available
Developmental Toxicity	No information available
Teratogenicity	No information available
Target Organ Effects	Eyes. Central nervous system (CNS). Liver. Skin. Respiratory system. Gastrointestinal tract (GI). Mucous membrane. Kidney.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects

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

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Methyl alcohol		13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	
Propargyl alcohol		1.49 - 1.56: 96 h Pimephales promelas mg/L LC50 flow-through		

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

DOT

Proper shipping name	UN1987, Alcohols, n.o.s., (contains Methanol and Propargyl Alcohol), 3, PG II
Hazard class	3
UN/ID No	UN1987
Packing Group	II

IMDG/IMO

Proper shipping name	UN1986, Alcohols, flammable, toxic, n.o.s., (contains Methanol and Propargyl Alcohol), 3 (6.1), PG II
Hazard class	3
Subsidiary hazard class	6.1
UN/ID No	UN1986
Packing Group	II

ADR/RID

Proper shipping name	UN1986, Alcohols, flammable, toxic, n.o.s., (contains Methanol and Propargyl Alcohol), 3 (6.1), PG II
Hazard class	3 (6.1)
UN/ID No	UN1986
Packing Group	II

ICAO/IATA

UN/ID No	Un1986
Proper shipping name	UN1986, Alcohols, flammable, toxic, n.o.s., (contains Methanol and Propargyl Alcohol), 3 (6.1), PG II
Hazard class	3
Subsidiary hazard class	6.1
Packing Group	II

15. REGULATORY INFORMATION

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

Water endangering class = 1

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
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 contains a chemical or 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	Yes
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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl alcohol	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Propargyl alcohol	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

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
Methyl alcohol	1 % B2,D1B,D2A,D2B
Propargyl alcohol	1 % B2,D1A,E

Chemical Name	NPRI
Methyl alcohol	X
Propargyl alcohol	X

16. OTHER INFORMATION

NFPA	Health Hazard 2	Flammability 3	Stability 0	Physical and chemical hazards -
HMIS	Health Hazard 2	Flammability 3	Physical Hazard 0	Personal protection - .

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

R11 - Highly flammable

R34 - Causes burns

R10 - Flammable

R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R36/38 - Irritating to eyes and skin

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H370 - Causes damage to organs

H412 - Harmful to aquatic life with long lasting effects

Prepared By QHSE Department**Issuing date** 02-Oct-2002**Revision Date** 13-Jul-2011**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.****Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.