

# Material Safety Data Sheet



## Ultra Stim C732

### Section 1. Chemical Product and Company Identification

<b>Common Name</b>	: Ultra Stim C732	<b>Code</b>	: Not available.
<b>Supplier</b>	: See Manufacturer (below).	<b>MSDS#</b>	: Not available.
<b>Synonym</b>	: Crude oil, natural gasoline.	<b>Validation Date</b>	: 4/15/2003.
<b>Trade name</b>	: Not available.	<b>Print Date</b>	: 4/15/2003.
<b>Material Uses</b>	: Primarily used in oil and gas industry for frac-oil dewaxing and fracture stimulation.	<b>Responsible Name</b>	: Kemika XXI inc.
<b>Manufacturer</b>	: ConocoPhillips Canada Limited or its affiliates PO Box 130, 401 - 9th avenue S.W. Calgary, Alberta T2P 2H7 (403) 233-4000	<b>In Case of Emergency</b>	: 1-800-661-9525

### Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	UN number
Octane	111-65-9	15-30	Not available.	UN1262
Nonane	111-84-2	15-30	Not available.	UN1920
Methylcyclohexane	108-87-2	15-30	Not available.	UN2296

### Section 3. Hazards Identification

**Physical State and Appearance** : Liquid.

**Emergency Overview** : WARNING!  
FLAMMABLE LIQUID AND VAPOR.  
VAPOR MAY CAUSE FLASH FIRE.  
MAY BE HARMFUL IF INHALED.  
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Routes of Entry** : Absorbed through skin. Eye contact. Inhalation.

#### Potential Acute Health Effects

**Eyes** : Hazardous in case of eye contact (irritant).

**Skin** : Sensitization of the product: Not available.  
Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** : Hazardous in case of inhalation (lung irritant). High vapour concentrations can cause headaches, dizziness, drowsiness and nausea. Causes respiratory irritation. Causes suffocation (asphyxiant) if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.

**Ingestion** : Not available.

**Potential Chronic Health Effects** : Carcinogenic Effects: Not applicable.  
Mutagenic Effects: Not applicable.  
Teratogenic Effects: Not applicable.

**Medical Conditions Aggravated by Overexposure:** : The principle hazard associated with this material is a solvent and defatting action on the skin which may lead to irritation and dermatitis on prolonged contact. Because of the low viscosity of the liquid it also represents an aspiration hazard. There is evidence that repeated and prolonged exposure to hydrocarbons of similar boiling range can lead to nerve and kidney damage.

**Overexposure /Signs/Symptoms** : Not available.

[See Toxicological Information \(section 11\)](#)

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## Section 4. First Aid Measures

- Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
- Notes to Physician** : Not available.

## Section 5. Fire Fighting Measures

- Flammability of the Product** : Flammable.
- Autoignition Temperature** : 232°C (449.6°F)
- Flash Points** : CLOSED CUP: 5°C (41°F). (Pensky-Martens.)
- Flammable Limits** : LOWER: <1% UPPER: 10%
- Products of Combustion** : These products are carbon oxides (CO, CO<sub>2</sub>).
- Fire Hazards in Presence of Various Substances** : Highly flammable in presence of open flames, sparks and static discharge, of heat. Slightly flammable to flammable in presence of shocks.
- Explosion Hazards in Presence of Various Substances** : Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
- Fire Fighting Media and Instructions** : SMALL FIRE: Use dry chemical powder.  
LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
- Protective Clothing (Fire)** : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Special Remarks on Fire Hazards** : Not available.
- Special Remarks on Explosion Hazards** : Not available.

## Section 6. Accidental Release Measures

- Small Spill and Leak** : Absorb with an inert material and put the spilled material in an appropriate waste disposal.
- Large Spill and Leak** : Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

## Section 7. Handling and Storage

- Handling** : Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

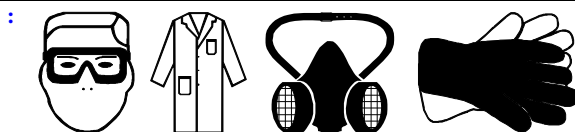
## Section 8. Exposure Controls, Personal Protection

- Engineering Controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station on location.

### Personal Protection

- Eyes** : Splash goggles.
- Body** : Lab coat.
- Respiratory** : Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
- Hands** : Gloves.
- Feet** : Not applicable.

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**Protective Clothing (Pictograms)**

**Personal Protection in Case of a Large Spill** : Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Octane	Not available.
Nonane	Not available.
Methylcyclohexane	Not available.

[Consult local authorities for acceptable exposure limits.](#)

## Section 9. Physical and Chemical Properties

**Physical State and Appearance** : Liquid.

**Color** : Colorless to light yellow.

**Odor** : Gasoline-like.

**Taste** : Not available.

**Molecular Weight** : Not applicable.

**Molecular Formula** : Not applicable.

**pH (1% Soln/Water)** : Not applicable.

**Boiling/Condensation Point** : 104 to 235°C (219.2 to 455°F)

**Melting/Freezing Point** : May start to solidify at -51.1°C (-60°F) based on data for: Nonane. Weighted average: -78.17°C (-108.7°F)

**Critical Temperature** : The lowest known value is 295.5°C (563.9°F) (Octane).

**Specific Gravity** : 0.765 (Water = 1)

**Vapor Pressure** : 6.9 kPa (51.8 mmHg) (at 20°C)

**Vapor Density** : The highest known value is 4.4 (Air = 1) (Nonane). Weighted average: 3.9 (Air = 1)

**Volatility** : Not available.

**Odor Threshold** : Not available.

**Evaporation Rate** : 1.7 compared to Butyl acetate.

**VOC** : Not available.

**Viscosity** : Not available.

**LogK<sub>ow</sub>** : Not available.

**Ionicity (in Water)** : Not available.

**Dispersion Properties** : Is not dispersed in cold water, hot water.

**Solubility** : Insoluble in cold water, hot water.

**Physical Chemical Comments** : Not available.

## Section 10. Stability and Reactivity

**Stability and Reactivity** : The product is stable.

**Conditions of Instability** : Avoid all possible sources of ignition (spark or flame).

**Incompatibility with Various Substances** : Reactive with oxidizing agents.

**Hazardous Decomposition Products** : Carbon monoxide (CO).

**Hazardous Polymerization** : Will not occur.

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## Section 16. Other Information

### Hazardous Material Information System (U.S.A.)

Health	2
Fire Hazard	3
Reactivity	0
Personal Protection	H

### National Fire Protection Association (U.S.A.)



**References** : Not available.  
**Other Special Considerations** : Not available.

**Date of printing** : 4/15/2003.  
**Date of issue** : 4/15/2003.  
**Date of Previous Issue** : No Previous Validation.  
**Version** : 1

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