

# Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Tank Prep 'B'

Product. No: Tank Prep 'B'

Specification No:

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## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

1.1.1 Trade name/designation:

Tank Prep 'B'

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

1.2.1 Relevant identified uses:

Tank Sealant

1.2.2 Uses advised against:

All others not listed above

### 1.3 Details of the supplier

1.3.1 Supplier:

Kreem Products

1.3.2 U.S. Address

Product Stewardship DPT  
SUITE 400

360 Rainbow Blvd. South  
Niagara Falls, NY 14032

1.3.3 U.S. Telephone Number

(716)286-3081

### 1.4 Emergency Telephone Number

Occidental Chemical Corp. (24 hours): (716)278-7021

Chemtrec (Transportation): (800)424-9300

Rocky MTN. (Medical): (303)595-9048

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture:

2.1.1 Classification according to 67/548/EEC or 1999/45/EC

F: Highly Flammable

Xi: Irritant

### 2.1 Label elements

2.2.1 Labeling according to Regulation (EC) No 1272/2008

Product identifier:

Tank Prep 'B'

Hazard pictograms:



F: Highly Flammable



Xi: Irritant

Signal word:

DANGER!

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## Hazard statements:

H225: Highly flammable liquid and vapor

H320: Causes eye irritation

H313: may be harmful in contact with skin

H336: May cause drowsiness or dizziness

## Precautionary statements:

P102: Keep out of reach of children

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P271: Use only outdoors or in a well-ventilated area

## Section 3: Composition/information on ingredients

### 3.1 Description of the mixture:

CAS No	EC No	INDEX No	REACH No	% [weight]	Name	Classification according to 67/548/EEC
78-93-3	201-159-0			100	Methyl Ethyl Ketone	F; Xi; R11; R36; R66; R67; S2; S9; S16

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

#### 4.1.1 Eye contact:

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

#### 4.1.2 Inhalation:

Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.

#### 4.1.3 Skin contact:

Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention if irritation persists. Wash clothing before reuse.

#### 4.1.4 Ingestion:

DO NOT INDUCE VOMITING. Do not give anything to drink. Obtain medical attention IMMEDIATELY.

#### 4.1.5 Notes for the doctor:

Causes central nervous system depression. Call a doctor or poison control center for guidance.

## Section 5: Firefighting measures

### 5.1 Extinguishing media:

#### 5.1.1 Suitable extinguishing media:

Apply alcohol-type or all purpose-type foams by manufacturer's recommended techniques for large fires. Use CO2 or dry chemical media for small fires.

#### 5.1.2 Unsuitable extinguishing media:

Do not use water in a jet.

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5.2 Special hazards arising from the substance or mixture

5.2.1 Hazardous combustion products:

Carbon monoxide and/or carbon dioxide – carbon monoxide is highly toxic if inhaled, carbon dioxide in sufficient concentrations can act as an asphyxiant

5.3 Advice for fire-fighters:

Use water spray to cool fire and exposed containers and structures. Use water spray to disperse vapors; re-ignition is possible. Use self-contained breathing apparatus and protective clothing.

5.4 Additional information:

Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. Vapors may settle in low or confined areas, or travel a long distance to an ignition source and flash back explosively.

This product may produce a floating fire hazard.

## Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment:

Rubber gloves

6.1.2 For emergency responders

Personal protective equipment:

Rubber gloves, boots, protective clothing, respirator if airborne levels exceed the exposure limits

6.2 Environmental precautions:

Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment. Attempt to disperse the vapor or to direct its flow to a safe location by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

6.3.2 For cleaning up:

For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery for safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For small liquid spills (<1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

## Section 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective measures:

7.1.1.1 Fire preventions:

Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge.

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## 7.1.2 Advice on general occupational hygiene

Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Do not smoke.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions:

Keep away from aerosols, flammables, oxidizing agents, corrosives and from products harmful or toxic to man or to the environment.

Must be stored in a well-ventilated area, away from sunlight, ignition sources and other sources of heat.

Storage temperature: Ambient.

### Storage class:

3A: Flammable liquid materials (Flashpoint below 55C)

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 8.1.1 Occupational exposure limits:

Limit value type (country of origin)	Substance name	EC-No.	CAS-No	Limit value	Monitoring and observation processes
TWA (ACGIH-USA)	Methyl Ethyl Ketone	201-159-0	78-93-3	200 ppm	
STEL (ACGIH-USA)				300 ppm	
TWA (AU)				150 ppm	
STEL (AU)				300 ppm	
TWA (NIOSH)				590 mg/m <sup>3</sup>	
STEL (NIOSH)				885 mg/m <sup>3</sup>	
TWA (NIOSH)				200 ppm	
STEL (NIOSH)				300 ppm	
TWA (CA)				590 mg/m <sup>3</sup>	
STEL (CA)				885 mg/m <sup>3</sup>	
TWA (OSHA-USA)				200 ppm	
STEL (OSHA-USA)				300 ppm	
TWA (OSHA-USA)				590 mg/m <sup>3</sup>	
STEL (OSHA-USA)				885 mg/m <sup>3</sup>	

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

General (mechanical) room ventilation is expected to be satisfactory where this product is stored and handled in closed equipment. Special local ventilation is needed at points where vapors can be expected to escape the workplace air.

#### 8.2.2 Personal protective equipment:

##### 8.2.2.1 Eye/Face protection:

Monogoggles

##### 8.2.2.2 Skin protection:

Wear a chemical apron and Butyl gloves. Eye wash and emergency safety shower should be in close proximity.

##### 8.2.2.3 Respiratory protection:

Use self contained breathing apparatus in high vapor concentrations.

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## Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: **Liquid**      Color: **White to Translucent**      Odor: **Pungent**      Odor threshold:

9.1.2 Safety relevant basic data

pH (20 °C): **No Data**

Melting point/range(°C): **-86.6**

Initial boiling point/range (°C): **79.6**

Decomposition temperature (°C): **No Data**

Flash point (°C): **21**

Ignition temperature (°C): **No Data**

Vapor pressure (MMHG) at 20 °C: **74.9**

Vapor density (air = 1): **2.5**

Density (g/cm<sup>3</sup>) at 20 °C: **0.81**

Bulk density (kg/m<sup>3</sup>): **No Data**

Water solubility (20°C in g/l): **24%**

Solubility(ies): **No Data**

Partition coefficient: **0.3**

N-Octanol/Water (log Po/w): **No Data**

Viscosity, dynamic (mPa s): **0.405**

9.1.3 Physical hazards:

**Flammable gases**

**Flammable liquids**

9.2 Other safety information:

Properties of explosive atmospheres (mixtures):

Gases and vapors: **No Data**

Dusts: **No Data**

Physical chemical properties of nanoparticles: **No Data**

Limiting oxygen concentration: **No Data**

Bulk density: **No Data**

Solubility in different media: **No Data**

Stability in organic solvents and identity of relevant degradation products: **No Data**

Evaporation rate: **6.6**

Conductivity: **No Data**

Surface tension: **No Data**

Dissociation constant in water (pKa) **No Data**

Oxidation-reduction Potential: **No Data**

Fat solubility (solvent – oil to be specified): **No Data**

Critical temperature: **No Data**

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## Section 10: Stability and reactivity

- 10.1 Reactivity:  
Non-reactive
- 10.2 Chemical stability:  
Stable
- 10.3 Possibility of hazardous reactions  
None will occur
- 10.4 Conditions to avoid:  
Contact with incompatible materials, exposure to ignition source
- 10.5 Incompatible materials:  
Strong oxidizing agents, alkalis, halogens, mineral acids.
- 10.6 Hazardous decomposition products:  
Burning can product the following

## Section 11: Toxicological Information

### 11.1 Information on toxicological effects:

	Effect dose / Concentration	Species	Method	Time
Acute oral toxicity	2737 mg/kg	Rat	LD50	
Acute dermal toxicity	13 g/kg	Rabbit	LD50	
Acute inhalative toxicity (vapor)	2000 ppm	Rat	LCLO	4 Hours

### 11.2 Other information:

#### 11.2.1 Additional Information:

**Carcinogenicity:** This material is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.  
**Other Data:** Laboratory rats exposed by inhalation to over 1000 ppm for most of their pregnancy period exhibited minor embryo toxic/fetotoxic effects. This concentration of MEK is over 5 times the OSHA PEL; MEK may potentiate the toxic effects of N-Hexane, Methyl Butyl Ketone and Carbon Tetrachloride.

#### 11.2.2 Assessment/classification

3A: Flammable Liquid materials (With a flashpoint below 55C)

#### 11.2.3 In case of ingestion:

Moderately toxic. May cause irritation of the mouth, throat and esophagus with Nausea, Abdominal discomfort, Vomiting, Diarrhea, Dizziness and drowsiness. Aspiration into the lungs may occur during ingestion or vomiting resulting in lung injury.

#### 11.2.3 In case of skin contact:

Brief contact may cause slight irritation with itching and local skin redness. Prolonged or repeated contact may cause defatting and drying of the skin.

#### 11.2.4 In case of inhalation:

High concentrations of vapor may cause nausea, vomiting, headache, and dizziness. Causes irritation of the respiratory tract, experienced as nasal discomfort and discharge with chest pain and coughing. Loss of consciousness may occur.

#### 11.2.5 In case of eye contact:

Causes moderate to severe irritation, experienced as discomfort or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva.

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## Section 12: Ecological information

12.1 Toxicity:  
Aquatic toxicity

12.1.1 Substances  
Acute (short-term) toxicity

Effect dose	Exposure time	Species	Method	Evaluation	Remark
2993 mg/L	96 Hours	Fathead Minnow	LC50		
308 mg/L	48 hours	Daphnids	EC50		

## Section 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product/package disposal:  
Incinerate in a furnace where permitted under federal, state and local regulations. At very low concentrations in water, this product is biodegradable in a Biological Waste Water Treatment Plant

13.1.2 Waste codes/waste designations according to EWC/AVV:  
16 07 99

13.2 Additional information:  
German Water Hazard Class: Class 1

## Section 14: Transport Information

14.1 Land transport (CFR 49: DOT)  
UN-No: UN1193  
Proper shipping name: Methyl ethyl ketone  
Class(es): 3  
Packing group: II  
Hazard label(s): 3  
Special provision(s): IB2, T4, TP1

14.2 Land transport (ADR/RID/GGVSEB):  
UN-No: UN1193  
Proper shipping name: Methyl Ethyl Ketone  
Class(es): 3  
Classification Code: F1  
Packing group: II  
Hazard label(s): 3  
Special provision(s): -

14.3 Sea transport (IMDG-Code/GGVSee):  
UN No: UN1193  
Proper shipping name: Methyl Ethyl Ketone  
Class(es): 3  
Packing group: II  
Marine Pollutant: No  
Special provision(s): -

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14.4 Air transport (ICAO-IATA/DGR):  
UN No: UN1193  
Proper shipping name: Methyl Ethyl Ketone  
Class(es): 3  
Packing group: II  
Special provision(s): -

## Section 15: Regulatory Information

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

15.1.1 National regulations(United States):

Do Not Detach this section from the MSDS and be sure to include this section when copying the MSDS. Superfund amendments and reauthorization act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for this material. Components that are at a level which could require reporting under statute are:

Methyl Ethyl Ketone; 78-93-3; 100%

Toxic substances control Act (TSCA) Status: The ingredients of this product are on the TSCA Inventory

New York release reporting list: Methyl Ethyl Ketone

Road Island RTK hazardous substances: Methyl Ethyl Ketone

Pennsylvania RTK: Methyl Ethyl Ketone

Minnesota: Methyl Ethyl Ketone

Massachusetts RTK: Methyl Ethyl Ketone

New Jersey: Methyl Ethyl Ketone

California Director's list of Hazardous Substances: Methyl Ethyl Ketone

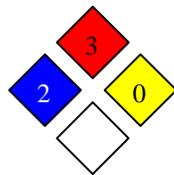
TSCA 8(b) inventory: Methyl Ethyl Ketone

TSCA 8(d) H and S data reporting: Methyl Ethyl Ketone

OSHA:

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

HMIS



15.1.2 National regulations(Europe):

EINECS:

This product is on the European Inventory of Existing Commercial Chemical Substances

EU Classification:

F

Xi

EU Risk Statements:

R11; R36; R66; R67

EU Safety Statements:

S2; S9; S16

15.1.3 National regulations(Canada):

WHMIS:

Class B-2: Flammable liquid with a flash point lower than 37.8C

Class D-2A: Material causing other toxic effects

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## Section 16: Other Information

### 16.1 Relevant R-, H- and EUH-phrases (number and full text):

R11: Highly flammable

R36: Irritating to eyes

R66: Repeated exposure may cause skin dryness or cracking

R67: Vapors may cause drowsiness and dizziness

S2: Keep out of the reach of children

S9: Keep container in a well-ventilated place

S16: Keep away from sources of ignition – No smoking

### 16.2 Further information:

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