

Safety Data Sheet

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

Trade name: Tank Prep 'A'

Product. No: Tank Prep 'A'

Specification No:

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Print date: 06MAR2012

Revision date: 06MAR2012

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

1.1 Product Identifier

1.1.1 Trade name/designation:

Tank Prep 'A'

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

1.2.1 Relevant identified uses:

Tank rust removal and cleaning

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

Occidental Chemical Corp

Product Stewardship DPT.

Suite 400

360 Rainbow Blvd. South

Niagara Falls, NY 14032

1.3.3 U.S. Phone

(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

C: Corrosive

2.2 Label elements

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

Product identifier:

Tank Prep 'A'

Hazard pictograms:

C: Corrosive



Signal word:

Danger

Hazard statements:

H290: May be corrosive to metals

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H303: May be harmful if swallowed

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Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P233: Keep container tightly closed

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

P262: Do not get in eyes, on skin, or on clothing

P260: Do not breathe vapors

P264: Wash thoroughly after handling.

P281: Use personal protective equipment as required

2.3 Other hazards

Adverse human health effects and symptoms:

Product is strongly irritating and corrosive to the eyes, skin, respiratory and digestive tracts. Prompt treatment is important to minimize effects of exposure

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
7664-38-2	231-633-2			75-85	Orthophosphoric Acid	C; R34; S1/2; S26; S45
				15-25	Water	

Section 4: First Aid Measures

4.1 Description of first aid measures

4.1.1 Eye contact:

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. SEEK MEDICAL ADVICE.

4.1.2 Inhalation:

Breathe fresh air. If breathing discomfort occurs and persists after cessation of exposure, see a medical doctor.

4.1.3 Skin contact:

Rinse with water and soap. Immediately take off all contaminated clothing. Consult a doctor if irritation persists.

4.1.4 Ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Seek medical advice at once.

Section 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Put out the fire using appropriate agents against the surrounding fire

5.1.2 Unsuitable extinguishing media:

None

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5.2 Special hazards arising from the substance or mixture

5.2.1 Hazardous combustion products:

Toxic fumes of Phosphorous Pentoxide

5.3 Advice for fire-fighters:

Wear protective clothing and NIOSH/MSHA approved positive pressure self-contained breathing apparatus in fire conditions.

5.4 Additional information:

Hydrogen gas is released in contact with most metals.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment:

Rubber or Neoprene Gloves

6.1.2 For emergency responders

Personal protective equipment:

Rubber or Neoprene Gloves, Chemical goggles, NIOSH/MSHA approved respirator if airborne levels are excessive.

6.2 Environmental precautions:

Avoid undiluted spillage entering the sewers, basements or pits and watercourses.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Throw sand, ashes or powder cement to absorb the liquid. Neutralize with slaked lime (calcium hydroxide), sodium carbonate, calcium carbonate or sodium bicarbonate.

6.3.2 For cleaning up:

Ventilate area and wash spill site after material pickup is complete. Place in container for disposal according to local/national regulations.

Section 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective measures:

Wear personal protective equipment

7.1.2 Advice on general occupational hygiene

Do not eat, drink, or smoke while using this product. Wash hands thoroughly after handling

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store product in a cool, dry, clean well ventilated area away from alkaline products and metals. Do not pile up the containers. Do not store at temperatures close to freezing point. Do not store under direct sunlight. Store away from heat.

Storage class:

8B: Non-flammable corrosive materials

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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(PEL-USA) STEL(USA) TLV(USA)	Orthophosphoric Acid		7664-38-2	1 mg/m ³ 3 mg/m ³ 1 mg/m ³	

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Provide good general room ventilation and local exhaust ventilation at points of vapor emission.

8.2.2 Personal protective equipment:

8.2.2.1 Eye/Face protection:

Wear chemical goggles. Wear full face shield to protect splashing where appropriate.

8.2.2.2 Skin protection:

Use rubberized coveralls and rubber shoes

8.2.2.3 Respiratory protection:

Use NIOSH/MSHA Approved respirator for areas where airborne exposure is excessive.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid Color: Colorless to Straw colored Odor: Odor threshold:

9.1.2 Safety relevant basic data

pH (20 °C): No Data

Melting point/range(°C): -17.5

Initial boiling point/range (°C): 135

Decomposition temperature (°C): No Data

Flash point (°C): No Data

Ignition temperature (°C): No Data

Vapor pressure (hPa) at °C: No Data

Vapor density (air = 1): No Data

Density (g/cm³) at °C: No Data

Bulk density (kg/m³): 13.1LBS/Gal

Water solubility (20°C in g/l): 100%

Solubility(ies): No Data

Partition coefficient: No Data

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

Viscosity, dynamic (mPa s): No Data

9.1.3 Physical hazards:

Corrosion

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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: No Data

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

Section 10: Stability and reactivity

10.1 Reactivity:

Not Reactive

10.2 Chemical stability:

Under normal conditions this material is stable.

10.3 Possibility of hazardous reactions

Not possible

10.4 Conditions to avoid:

Avoid contact with incompatible materials

10.5 Incompatible materials:

Reacts vigorously with alkalis producing heat. Reacts with many metals producing heat. Reacts with many metals producing heat and hydrogen gas.

10.6 Hazardous decomposition products:

Heating to decomposition yields toxic fumes of phosphorous pentoxide.

Section 11: Toxicological Information

11.1 Information on toxicological effects:

	Effect dose / Concentration	Species	Method	Time
Acute oral toxicity	1530 mg/kg	Rat	LD50	
Acute dermal toxicity	2740 mg/kg	Rabbit	LD50	

11.2 Other information:

11.2.1 Assessment/classification

8B: Non-flammable corrosive materials

11.2.2 Routes of exposure:

11.2.2.1 In case of ingestion:

May cause severe irritation and burns to the mouth, throat and digestive tract.

11.2.2.2 In case of skin contact:

Strongly irritating and corrosive to the skin

11.2.2.3 In case of inhalation:

Exposure to acid vapor or mist may cause irritation of respiratory tract

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11.2.2.4 In case of eye contact:

Contact with the eyes may cause irritation and serious eye burns. Permanent damage, while uncommon, can occur.

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
138 ppm	96 h	Gambusia affinis	TLm		
>100 mg/L	48 h	Daphnia magna	EC50		
>100 mg/L	72 h	Desmodesmus subspicatus	EC50		

Section 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product/packaging disposal:

Submit to an approved chemical disposal service for disposal in accordance with Federal, State and Local Regulations.

"Do NOT reuse this container". Corrosive product residues may remain in this container. All labeled precautions must be observed. Dispose of container in a manner meeting government regulations. Product should be completely removed from this container. Material that cannot be used or chemically reprocessed should be disposed of in a manner meeting government regulations.

13.1.2 Waste codes/waste designations according to EWC/AVV:

16 07 09*

(Any waste marked with an asterisk (*) is considered as a hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.)

Section 14: Transport Information

14.1 Land transport (CFR 49: DOT)

UN-No: UN1805

Proper shipping name: Phosphoric Acid Solution

Class (es): 8

Packing group: III

Hazard label(s): 8

Special provision(s): A7, IB3, N34, T4, TP1

14.2 Land transport (ADR/RID/GGVSE):

UN-No: UN1805

Proper shipping name: Phosphoric Acid, Solution

Class (es): 8

Classification Code: C1

Packing group: III

Hazard label(s): 8

Special provision(s): -

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14.3 Sea transport (IMDG-Code/GGVSee):

UN No: UN1805

Proper shipping name: Phosphoric acid, Solution

Class (es): 8

Packing group: III

Marine Pollutant: No

Special provision(s): 223

14.4 Air transport (ICAO-IATA/DGR):

UN No: UN1805

Proper shipping name: Phosphoric Acid, Solution

Class (es): 8

Packing group: III

Special provision(s): A3

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. This product is a toxic chemical subject to the reporting requirements of this section 313 of Title III of the superfund amendments and re-authorization Act of 1986 and 40 CFR Part 372.

This product contains the following chemical(s) considered by the state of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as causing cancer or reproductive toxicity and for which warnings are now required.

Arsenic: 7440-38-2

Cadmium: 7440-43-9

Lead: 7439-92-1

15.1.2 National regulations(Canada):

Class E – Corrosive Material at $\geq 1\%$

15.1.3 National regulations(Europe):

EU Classification: C: Corrosive

EU Risk Phrases: R34: Causes Burns

EU Safety Phrases: S1/2: Keep locked up and out of reach of children

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

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Section 16: Other Information

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

R34: Causes Burns

S1/2: Keep locked up and out of reach of children

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible.)

16.2 Further information:

****Kreem Products**** expressly disclaims all express or implied warranties of merchant ability and fitness for a particular purpose, with respect to the product or information provided herein.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Kreem Products makes no representations as to its accuracy or sufficiency. Conditions of use are beyond kreem products control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their handling particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

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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) STEL (ACGIH-USA) TWA (AU) STEL (AU) TWA (NIOSH) STEL (NIOSH) TWA (NIOSH) STEL (NIOSH) TWA (CA) STEL (CA) TWA (OSHA-USA) STEL (OSHA-USA) TWA (OSHA-USA) STEL (OSHA-USA)	Methyl Ethyl Ketone	201-159-0	78-93-3	200 ppm 300 ppm 150 ppm 300 ppm 590 mg/m ³ 885 mg/m ³ 200 ppm 300 ppm 590 mg/m ³ 885 mg/m ³ 200 ppm 300 ppm 590 mg/m ³ 885 mg/m ³	

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/cm³) at 20 °C: **0.81**

Bulk density (kg/m³): **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/packaging 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): -

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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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):

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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

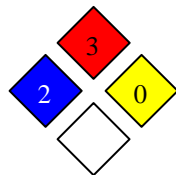
TSCA 8(b) inventory: Methyl Ethyl Ketone

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

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 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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Safety Data Sheet

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

Trade name: Tank Liner

Product. No: Tank Liner

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 Liner

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 Liner

Hazard pictograms:



F: Highly Flammable



Xi: Irritant

Signal word:

DANGER!

Safety Data Sheet

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

Trade name: Tank Liner

Product. No: Tank Liner

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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.

Safety Data Sheet

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

Trade name: Tank Liner

Product. No: Tank Liner

Specification No:

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Print date: 06MAR2012

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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.

Safety Data Sheet

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

Trade name: Tank Liner

Product. No: Tank Liner

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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) STEL (ACGIH-USA) TWA (AU) STEL (AU) TWA (NIOSH) STEL (NIOSH) TWA (NIOSH) STEL (NIOSH) TWA (CA) STEL (CA) TWA (OSHA-USA) STEL (OSHA-USA) TWA (OSHA-USA) STEL (OSHA-USA)	Methyl Ethyl Ketone	201-159-0	78-93-3	200 ppm 300 ppm 150 ppm 300 ppm 590 mg/m ³ 885 mg/m ³ 200 ppm 300 ppm 590 mg/m ³ 885 mg/m ³ 200 ppm 300 ppm 590 mg/m ³ 885 mg/m ³	

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.

Safety Data Sheet

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

Trade name: Tank Liner

Product. No: Tank Liner

Specification No:

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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/cm³) at 20 °C: **0.81**

Bulk density (kg/m³): **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**

Safety Data Sheet

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

Trade name: Tank Liner

Product. No: Tank Liner

Specification No:

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Print date: 06MAR2012

Revision date:06MAR2012

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.

Safety Data Sheet

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Trade name: Tank Liner

Product. No: Tank Liner

Specification No:

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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/packaging 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:
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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

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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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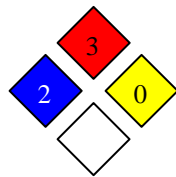
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HMIS



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EU Classification:

F

Xi

EU Risk Statements:

R11; R36; R66; R67

EU Safety Statements:

S2; S9; S16

15.1.3 National regulations(Canada):

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