Material Safety Data Sheet



Product and company identification

Product name

JEFFCOOL® P200

MSDS# 00033997

Product use

Heat transfer fluid.

Huntsman Petrochemical Corporation P.O. Box 4980 The Woodlands, TX 77387-4980

> **TELEPHONE NUMBERS Transportation Emergency**

(800) 328-8501 Company: CHEMTREC: (800) 424-9300

Medical Emergency: (409) 722-9673 (24 Hour) General MSDS Assistance: (281) 719-6000 (281) 719-7780 **Technical Information:** E-MAIL: MSDS@huntsman.com

Validation date

: 12/5/2008.

In case of emergency

Spills Leaks Fire or Exposure Call Chemtrec: (800) 424-9300 Medical Emergency Information: (800) 328-8501

> In Mexico: 01 800 00 214 00 In Columbia: 01 800 91 6012

Hazards identification

Physical state

: Liquid. [Liquid.]

Odor

: Slight

OSHA/HCS status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available

for employees and other users of this product.

Emergency overview

: CAUTION!

ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.

THIS PRODUCT NOT INTENDED FOR INTERNAL USE.

Aspiration hazard if swallowed. Can enter lungs and cause damage.

GENERAL INFORMATION

: Read the entire MSDS for a more thorough evaluation of the hazards.

3. Composition/information on ingredients

Name

Propylene glycol Dipotassium phosphate **CAS** number

57-55-6 7758-11-4 60 - 100 1 - 3

4. First aid measures

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.

Get medical attention if symptoms occur.

Inhalation Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if

breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen

by trained personnel. Get medical attention if symptoms occur.

Ingestion Wash out mouth with water. Move exposed person to fresh air. Aspiration hazard if

swallowed. Can enter lungs and cause damage. Do not induce vomiting. Get medical

attention. Never give anything by mouth to an unconscious person.

Notes to physician : Symptomatic and supportive therapy as needed. Following severe exposure medical

follow-up should be monitored for at least 48 hours.

5. Fire-fighting measures

Flash point : Closed cup: 100°C (212°F)

Products of combustion: Decomposition products may include the following materials:

carbon dioxide

aldehydes and ketones

Extinguishing media

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Special exposure hazards : In a fire or if heated, a pressure increase will occur and the container may burst.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

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7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Preventive Measures

: Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

Engineering controls

: Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. For guidance on engineering control measures refer to publications such as the ACGIH current edition of 'Industrial Ventilation, a manual of Recommended Practice.'

Personal protection

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

9. Physical and chemical properties

General information

Appearance

Physical state : Liquid. [Liquid.]
Color : Colorless.

Odor : Slight

Odor threshold : Not available.

Important health, safety and environmental information

pH : 9.9

Boiling point : 186.7°C (368.1°F) **Melting point** : <-61.5°C (<-78.7°F)

Flash point : Closed cup: 100°C (212°F)

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Physical and chemical properties 9.

Oxidizing properties

: <0.13 kPa (<1 mm Hg at 20°C) Vapor pressure

Relative density : 1.06 Solubility ; >10%

Octanol/water partition

coefficient

: Not available.

Not available.

: Kinematic: <0.2 cm²/s (<20 cSt at 40°C) Viscosity

Vapor density : 2.6 [Air = 1]**VOC** content : Not available.

10. Stability and reactivity

Stability and reactivity

: The product is stable.

Incompatibility with various

substances

: Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous polymerization

: Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous decomposition

products

: Decomposition products may include the following materials:

carbon dioxide

aldehydes and ketones

11. Toxicological information

Toxicity data

Acute toxicity

Product/ingredient name Species Result test Exposure

LD50 Oral >5000 mg/kg Similar product Rat LD50 Dermal Rabbit >2000 mg/kg

Potential acute health effects

Ingestion : Aspiration hazard if swallowed. Can enter lungs and cause damage.

Inhalation : No known significant effects or critical hazards. Eves : No known significant effects or critical hazards. Skin : No known significant effects or critical hazards.

Potential chronic health effects

Target organs None known.

Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

Ecological information

Environmental effects : No known significant effects or critical hazards.

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13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

Transportation Emergency Number 1-800-424-9300 (CHEMTREC).

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
DOT Classification	Not regulated.					-
TDG Classification	Not regulated.					-
IMDG Class	Not regulated.		-	_		-
IATA-DGR Class	Not regulated.		-	-		

PG*: Packing group

15. Regulatory information

United States

HCS Classification

: Not regulated.

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

CERCLA: Hazardous substances. : No ingredients listed.

SARA 313

No ingredients listed.

This product does not contain nor is it manufactured with ozone depleting substances.

California Prop 65

WARNING: This product contains a chemical known to the State of California to cause

cancer.

Ingredient name

Cancer Reproductive No significant risk level

Maximum acceptable dosage

level

Propylene oxide

Yes.

No.

No.

No.

<u>Canada</u>

WHMIS (Canada)

: Not controlled under WHMIS (Canada).

CEPA (DSL)

: All components are listed or exempted.

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15. Regulatory information

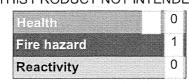
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

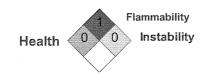
Label requirements

: ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. THIS PRODUCT NOT INTENDED FOR INTERNAL USE.

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



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



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Notice to reader

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

Trademarks:

JEFFCOOL® is a registered trademark of Huntsman Petrochemical Corporation in one or more countries, but not all countries.

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