



MATERIAL SAFETY DATA SHEET

This MSDS complies with EC Directive (March '91) implementing Article 10 of Directive 88/379/EEC

MSDS	Date 8/17/09
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Manufacturer/Supplier Details

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SECTION 1. MATERIAL IDENTIFICATION

Product Name: JPX-E
Product Use: Water Based Liquid Degreaser

SECTION 2. COMPOSITION

<u>Ingredients</u>	<u>CAS</u>	<u>TLV</u>
Propylene Glycol n-propyl ether	1569-01-3	None established
Terpenes	5989-27-5	None established
Proprietary Blend of surfactants		None established
Proprietary deodorizing components	N/A	None established
Waters and inerts		None established

Does not contain phosphates or silicates
All ingredients are listed under TSCA

SECTION 3. HAZARDS IDENTIFICATION

<u>Ingredient</u>	<u>% by weight</u>
Propylene Glycol N-Propyl Ether	7 -13 %
Dipentines	10 – 30%

SECTION 4. FIRST AID MEASURES

Route of Entry

Inhalation: If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.

Eye Contact: Flush with water. If irritation persists, call a physician.

Ingestion: See a physician.

Skin Contact: Wash skin with water after contact.

SECTION 5. FIRE AND EXPLOSION DATA

Flammability: IATA tested 3.3.5. No flash at 140.9° F and intermittent flash at 165.0° F. No ignition or sustained combustion. Will not sustain combustion in accordance with IATA 3.3.5 testing for combustibility for class #3 substances.

Means of extinction: Dry chemical, foam, or CO2. If water must be used, use as a spray only.

Special procedure: If water must be used, use as a spray only.

Flashpoint: No flash at 140.9° F and intermittent flash at 165.0° F.

Unusual fire & explosion hazards: Avoid excessive heat and flame.



SECTION 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material spills or released: Soak up with absorbent material.
Caution: slippery on floors.

SECTION 7. HANDLING AND STORAGE

Precautions to be taken in handling and storage: Keep closures on containers when not in use. Product may expand slightly in storage causing pressure to build up in container. Open container carefully if product appears to be under pressure. Utilize PVC bottles for spray applications.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory protection: No respiratory equipment required. However, if vapor concentration becomes high or objectionable in a confined space, use self-contained air mask.

Ventilation: Use adequate ventilation.

Protective clothing: Wear clothing to minimize skin contact.

Protective gloves: Impervious gloves.

Eye protection: Chemical safety goggles.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Appearance and odor: Blue/dark green with mild, citrus odor

Vapour pressure: Composite partial pressure .098 mm Hg at 20 degree C.

Evaporation rate: 1 (water =1)

Boiling point: 180°F

Freezing point: 32 Degrees F.

% Volatile by wt: 84

Solubility in water: 100% soluble

pH: 10 ± .5

Specific gravity: .975 at 20 Degree C.

Density (gram/cc): .0975

Coeff. Water/oil dist: 1

VOC grams per liter: 265

SECTION 10. STABILITY & REACTIVITY

Chemical stability: Stable

If not, under which conditions:

Incompatibility: Strong alkalis, rubber.

Reactivity and under what conditions: Non reactive

Hazardous decomposition products: CO, CO₂, acrid fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Local Effects

Skin contact: Irritating to skin upon repeated or prolonged contact.

Eye contact: Irritating on contact.

Inhalation: Inhalation of vapor or mist may cause irritation.

Ingestion: Amounts swallowed incidental to normal handling are not likely to cause injury.

Sensitization: None known.

Chronic effects: None known



SECTION 11. TOXICOLOGICAL INFORMATION (Continued)

Specific Effects

Carcinogenicity: None known

Reproductive effects: None known

Teratogenicity: None known

Mutagenicity: None known

Exposure limit of material: Calculated LD 50: 4294 mg/kg (oral rat)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: This material is highly soluble in water. This material has exhibited low toxicity in laboratory testing with rats.

Environmental fate: This material will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.

Bioaccumulation: Testing shows that the material is hydrophilic and will preferentially partition to water rather than soil or atmosphere. The material facilitates the separation of dissolved oil from water. The bulk of the material is carried in the oil phase where it is removed as a skim layer by separator system. Calcium chloride can be added to speed the oil water separation process. The material has been utilized in over one hundred equipment turnarounds by several different petroleum refining companies without adverse effects on bio-treatment systems or other effluent concerns. On the basis of all available information, this material/preparation is not expected to produce any significant detrimental environmental effects, when used as directed.

Tests conducted with 5% solutions of JPX:

96-Hour Acute Aquatic Toxicity Bioassay w/Rainbow trout (LC50-Fish toxicity test): 306.0 ppm

COD 41000 mg O₂/L ; BOD 11000 mg/L aerated 24 hours

COD 61000 mg O₂/L ; BOD 11000 mg/L non-aerated

TKN via method SM4500-N-O,C: 150 mg/L (ppm) with RL of 0.50 analyzed 10/2/98.

TOC via method 415.1:7, 400 mg/L (ppm) with RL of 500 analyzed 10/3/98.

TKN = Total Kjeldahl Nitrogen

TOC = Total Organic Carbon

RL = Reporting Limit

SECTION 13. DISPOSAL CONSIDERATIONS

As per local regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated for road transport.



SECTION 15. REGULATORY INFORMATION

USA REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels, which would require a warning under the statute.

CANADIAN REGULATORY INFORMATION

WHMIS Information: The Canadian workplace hazardous materials information system (WHMIS) classification for this product is:

D2B – Eye or skin irritant. Refer elsewhere on the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

CPR Statement – This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Hazardous Products Act Information – This product contains the following ingredients which are controlled products and/or on the ingredient disclosure list (Canadian HPA section 13 and 14):

COMPONENT	CAS #	AMOUNT (%W/W)	LC50/LD50
Propylene Glycol N-Propyl Ether	001569-01-3	7 – 13%	Acute: Oral 3250 mg/kg (rat)
Dipentines	68956-56-9	10 – 30%	Acute Oral: >5 g/kg (rat)

SECTION 16. OTHER INFORMATION

Prepared by: Eric Andersen

Date: 8/17/09

Telephone Number: 310-715-3070

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