

MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION AND USE

Product Name	JY-10
Chemical Family	Various hydrocarbons
Supplier	DEK Canada Inc. 1928 St. Regis Blvd Dorval, Qc H9P 1H6
Product Use	Cleaner / degreaser

SECTION IA: FIRST AID MEASURES

Eye Contact	Flush eyes with plenty of water for at least 15 minutes, lifting upper and lower lids, occasionally. If irritation persists, consult physician.
Skin Contact	Wash thoroughly with soap and water. If irritation persists, seek medical attention. Remove contaminated clothing and wash before reuse.
Inhalation	Remove affected person to fresh air. If breathing is difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention.
Ingestion	DO NOT induce vomiting. Guard against aspiration into lungs. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis which can be fatal. Immediately contact a physician or poison control centre.

SECTION II: HAZARDOUS INGREDIENTS

Name	CAS #	%	Exposure limits	
			LD/50	LC/50
Normal heptane	142-82-5	40 – 70	ORAL (LD50) mg/kg: Acute 15000 (Rat)	
D'Limonene	5989-27-5	10 – 30	ORAL (LD50) mg/kg: Acute: 5000 (Rat)	
Dipropylene Glycol Methyl Ether	34590-94-8	7 - 13	ORAL (LD50) mg/kg: Acute: 5660 (Rat) DERMAL (LD50) mg/kg: Acute: 9500 (Rat)	
Carbon dioxide	124-38-9	1 - 5	Not available	

SECTION III: PHYSICAL DATA

Physical state and appearance	Liquid clear, colourless (Aerosol concentrate)
Odour	Citrus
Density (Water = 1)	0.740 – 0.760
Odour threshold	49 ppm based on data for: Normal heptane
Vapour pressure (mm Hg)	Weighted average: 26.89 mm of Hg (@20°C)
Vapour density (Air = 1)	3.45 based on data for: Normal heptane
Evaporation rate	4.5 based on data for: Normal heptane (Butyl acetate)
Boiling point	92°C based on data for: Normal heptane. Weighted average: 137.36°C
pH	N/A
Solubility in water	Insoluble in water
Dispersion properties	N/A
Water/oil dist. Coeff	N/A
Distribution	N/A
Volatility %	Approximately 97% (w/w)
Melting Point	N/A
Molecular weight	N/A

SECTION IV: FIRE AND EXPLOSION DATA

Flammability	Extremely Flammable Aerosol
Special procedures	Dangerous fire hazard when exposed to heat, open flames, sparks or ignition sources
Auto-ignition temperature	215°C based on data for: Normal heptane
Hazardous combustion products	These products are carbon oxides (CO, CO ₂) and other irritating gases
Flash point (°C method)	CLOSED CUP: -4°C (TAG) (Normal heptane)
Upper Flammable limit (% vol)	6.7%
Lower flammable limit (% vol)	0.7%
Extinguishing media	Small fire: Use DRY chemicals, CO ₂ or alcohol foam. Large fire: Use alcohol or water fog. Cool containing vessels with water spray in order to prevent pressure build-up, auto-ignition or explosion. Avoid spreading burning liquid with water used to cool containers. Self-contained respiratory protection should be provided for firefighters.

Risks of explosion	Risk of explosion of the product in presence of mechanical impact: DO NOT subject aerosol cans to impact. Risks of explosion of the product in presence of static discharge: Vapours of this product may form a flammable/explosive mixture with air in enclosed areas when vapours present are between the lower (0,7%) and upper (6.7%) flammable limits and come into contact with open flames, sparks or static discharge. DO NOT expose aerosol containers to open flames, heat or ignition sources
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SECTION V: REACTIVITY DATA

Hazardous decomposition	N/A
Corrosivity	Not considered to be corrosive for metals and glass according to our database
Reactivity	Avoid contact with strong oxidizing agents. Keep away from heat, sparks, open flame and all possible ignition sources.

SECTION VI: TOXICOLOGICAL PROPERTIES

Route of entry	Ingestion. Inhalation. Skin contact. Eye contact
TLV	Normal heptane TWA: 400 CEIL: 500 (ppm) TWA: 1600 CEIL: 2000 (mg/m ³) Carbon dioxide TWA: 5000 (ppm)
Skin contact	May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis
Inhalation	Vapours may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapours may cause Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness
Ingestion	May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis, which can be fatal. Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact
Eye contact	May cause irritation, redness and tearing. This product is an eye irritant
Carcinogenicity	N/A
Teratogenicity	N/A
Mutagenicity	N/A
Reproductive effects	N/A
Synergistic materials	N/A

SECTION VII: PREVENTIVE AND CORRECTIVE MEASURES

Ventilation requirements	Use only in well ventilated conditions
Precautions	Contents under pressure. Container may explode if heated. DO NOT use in the presence of open flame or spark and electrical appliances. Do not breathe vapour or spray mist. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Wash hands after handling. Keep away from incompatibles, such as strong oxidizing agents and heat. Keep out of reach of children.
Storage requirements	Keep away from heat, open flames and sources of ignition. Keep in a cool, well-ventilated place. Do not puncture, incinerate or store the container at temperatures above 50°C or in direct sunlight
Leak and spill procedures	Small spill: keep away from heat. Ventilate area and eliminate all sources of ignition. Absorb with an inert DRY material and place in an appropriate waste disposal container. Wear protective gear. Large spill: not applicable for aerosol containers

SECTION VIII: CLASSIFICATION

T.D.G. road / rail	CONSUMER COMMODITY
CALL YOUR LOCAL ANTI-POISON CENTRE	

SECTION IX: REGULATORY INFORMATION

CPR compliance	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR
WHMIS classification	Class A, B-5, D-2B

SECTION X: PERSONAL PROTECTIVE EQUIPMENT

Protective equipment	
Gloves	Impervious
Footwear	Not required
Eyes	Safety glasses
Respiratory	Be sure to use a MSHA/NIOSH approved respirator or equivalent when ventilation is inadequate
Clothing	Not required.

SECTION XI: PREPARATION DATA OF MSDS

Prepared by	DEK Canada Inc.
Verified by	DEK Canada Inc.
Date	May 14, 2012

CAUTION: The information contained herein is accurate to the best of our knowledge. However, the above named supplier does not assume any liability whatsoever for the accuracy or completeness of the information. Final determination of suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, all materials may present unknown hazards and should be used with caution.