Dynatex®

MATERIAL SAFETY DATA SHEET

350 RING ROAD ELIZABETHTOWN, KY 42701 (270) 769-5557 (270) 769-6418

BRAKE & PARTS CLEANER
NON-CHLORINATED
PART NOS. 49669, 49670, 49671

SECTION I – IDENTITY INFORMATION

Product Identity : Hexane, IPA blend

SECTION II – INGREDIENT/REGULATORY INFORMATION

INGREDIENT	CAS #	TWA OSHA	TLV ACGIH	HAP	WT%
*Hexane	110-54-3	500PPM	50PPM	Yes	90
Isopropanol	67-63-0	400PPM	400PPM	No	10

This product contains the indicated (*) toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and of CFR 372. This information must be included in all MSDS that are copied and distributed for this material.

In addition to EPA Hazardous Air Pollutants showing "Yes" under "HAP" above, using manufacturer's data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%): Benzene

Material	Cas #	Ceiling	STEL (OSHA/ACGIH)
Hexane	110-54-3	None known	1000PPM
Isopropanol	67-63-0	None known	500PPM

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 AND SIMILAR REGULATIONS.

CALIFORNIA PROPOSITION 65: This product contains the following chemical known to the State of California to cause cancer: Benzene

If >5641 lbs. of the product is in one container the "RQ" is exceeded.

DOT SHIPPING NAME: Paint Related Material.

SECTION III – HAZARDS IDENTIFICATION

Threshold Limit Value : 500PPM (freshly prepared)

~CONTAINS: PETROLEUM NAPTHA, ISOPROPANOL~

DANGER!

EXTREMELY FLAMMABLE! VAPORS CAN CAUSE FLASH FIRE

SECTION IV – PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance	:	Liquid, water-white
Odor	:	Alcohol
Boiling Range	:	64 67 83^{0}C/148 153 182^{0}F
Gravity @ 60^{0}F:		
API	:	72.8
Specific Gravity (Water=1)	:	.693
Pounds/Gallon	:	5.769
VOC's (>0.44 lbs./Sq. In)	:	100.1 Vol.% 693.3 g/l 5.775 Lbs./Gal
Total VOC's (TVOC)	:	100.1 Vol.% 692.5 g/l 5.768 Lbs./Gal
Nonexempt VOC's (CVOC)	:	100.0 Vol.% 692.5 g/l 5.768 Lbs./Gal
Nonexempt VOC Partial Pressure (mm of Hg @ 20^{0}C)	:	131.8
Vapor Density (Air=1)	:	2.8
Water Absorption	:	Appreciable
Solvency Parameters:		
Hydrogen Bonding	:	17.8
Polarity	:	30.8
Dispersion	:	51.4
Refractive Index	:	1.383

SECTION V – FIRE AND EXPLOSION HAZARD DATA

Auto Ignition Temperature	:	321^{0}C/610^{0}F (lowest component)
Lower Flammable Limit in Air (% by vol.)	:	1.3
Flash Point (test method)	:	-26^{0}C/-16^{0}F (TCC) (lowest component)
Flammability Classification	:	Class IB
Extinguishing Media	:	NFPA Class B extinguishers (carbon dioxide of foam) for Class IB liquid fires.
Special Fire Fighting Procedures	:	Water spray ma be ineffective on fire but can protect fire fighters and cool closed containers. Use fog nozzles if water is used. Do Not enter confined fire space without bull bunker gear. (helmet with face shield, bunker coats, gloves and rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.

Unusual Explosion and Fire Procedures	: **EXTREMELY FLAMMABLE! VAPORS CAN CAUSE FLASH FIRE.** Keep container tightly closed. Isolate from oxidizers, heat, sparks, electric equipment and open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions.

SECTION VI – HEALTH HAZARD DATA

ACUTE HAZARDS:

Eye & Skin Contact	: Primary irritation to skin, defatting, dermatitis, primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.
Inhalation	: Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys, blood, nerves, liver and lungs.
Swallowing	: Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

Conditions Aggravated	: Chronic overexposure can cause damage to kidneys, blood, nerves, liver and lungs. Persons with severe skin, liver or kidney problems should avoid use.
Cancer, Reproductive and Other Chronic Hazards	: n-hexane may cause peripheral neuropathy. This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date greater or equal to 0.1%. This product may contain less than 88 PPM of Benzene. Not considered hazardous in such low concentrations.

FIRST AID PROCEDURES:

Eye Contact	: For eyes, flush with plenty of water for 15 minutes and get medical attention.
Skin Contact	: In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap and water. Wash contaminated clothing before reuse.
Inhalation	: After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.
Swallowing	: If swallowed, call a physician immediately! Do Not induce vomiting. Have patient lie down and keep warm. Vomiting may lead to pneumonit is, which may be fatal.

SECTION VII – REACTIVITY DATA

Stability	: Stable
Conditions to Avoid	: Isolate from oxidizers, heat, sparks, electric equipment and open flames.
Material to Avoid	: Isolate from strong oxidizers such as permanganates, chromates, peroxides.
Hazardous Decomposition Products	: Carbon monoxide, carbon dioxide from burning.
Hazardous Polymerization	: Will not occur.

SECTION VIII – ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures	: Stop spill at source. Dike area and contain. Clean up remainder with absorbent materials. Mop up and dispose of. Persons without proper protection should be kept from area until cleaned up.
Waste Disposal Method	: Recycle or dispose of, observing local, state, and federal health safety and pollution laws. If questions exist, contact the appropriate agencies.
Other Precautions	: Vapors may ignite explosively and spread long distances. Prevent vapor buildup put out pilot lights and turn off heaters, electric eqiupment and other ignition sources during use and until all vapors are gone.

SECTION IX – HANDLING AND STORAGE

Handling	: Isolate from oxidizers, heat, sparks, electric equipment and open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin and eyes. Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Wear gloves apron and footwear impervious to this material. Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring. Do Not flame cut, saw, drill, braze or weld. Empty container very hazardous! Continue all label precautions.

Storage	: Vapors may ignite explosively and spread long distances. Prevent vapor buildup. Put out pilot lights and turn off heaters, electric equipment and other ignition source during use and until all vapors are gone. Do Not store above 49^0C/ 120^0F. Store large amounts in structures made for OSHA Class IB liquids. Keep container tightly closed and upright when not in use to prevent leakage.

SECTION X – EXPOSURE CONTORLS/PERSONAL PROTECTION

Exposure Controls	: Ventilate to keep vapors of this material below 25 PPM. If over TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive pressure self-contained breathing apparatus. Consult safety equipment supplier. Use explosion-proof equipment.
VENTILATION:	
Local Exhaust	: Necessary
Mechanical (general)	: Acceptable
Special	: None
Other	: None
Personal Protection	: Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse.

SECTION XI – HAZARD COMMUNICATION CODES

HMIS RATINGS:	
Health	: 1
Flammability	: 3
Reactivity	: 0
NFPA RATINGS:	
Health	: 1

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