StarDental *Material Safety Data Sheet*

Junk-Out™ High-Speed Chuck Cleaner **MSDS No. 64020A JUNK-OUT**

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Junk-Out™ High-Speed Chuck Cleaner
General Use: Non-flammable halogenated dispersion
Manufacturer: Nye Lubricants, Inc.
12 Howland Road
Fairhaven, MA 02719 U.S.A.
Telephone: (508) 996-6721 (8:00AM - 5:00PM ET weekdays)
Nights and weekends (Medical Emergencies ONLY): CHEMTREC (800) 424-9300

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt *or* % vol
1,2-Trans-Dichloroethylene	156-60-5	45-48
Methyl Nonafluoroisobutyl Ether	163702-08-7	8-38
Methyl Nonafluorobutyl Ether	163702-07-6	8-38
Product formulation is Proprietary No other ingredients are known to be hazardous under normal usage.		

	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
Ingredient	**TWA**	**STEL**	**TWA**	**STEL**	**TWA**	**STEL**	**IDLH**
1,2-Trans-Dichloroethylene	200 ppm	NE	200 ppm	NE	NE	NE	NE
Methyl Nonafluoroisobutyl Ether[1]	NE	NE	NE	NE	NE	NE	NE
Methyl Nonafluorobutyl Ether[2]	NE	NE	NE	NE	NE	NE	NE
Oil Mist	5 mg/m^3	NE	5 mg/m^3	NE	5 mg/m^3	10 mg/m^3	2500 mg/m^3

[1]AIHA workplace environmental exposure level is 750 ppm TWA total for all isomers.
[2] AIHA workplace environmental exposure level is 750 ppm TWA total for all isomers.

NE = None Established

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Summary of risks: *This material contains a volatile solvent*. May be irritating to the eyes and respiratory tract. Overexposure may cause central nervous system depression. Vapors can reduce the amount of oxygen available for breathing.

HMIS
H 2
F 1
R 0
PPE†
†Sec. 8

Potential Health Effects

Eye Contact: May cause irritation, pain and possible corneal damage.
Skin Contact: May be absorbed through the skin. Repeated or prolonged skin contact may cause dryness, reddening, itching and inflammation. May cause allergic reactions in some individuals. Frequent daily exposure could conceivably result in the de-fatting of the skin leading to dermatitis.
Inhalation: May irritate the respiratory tract and mucous membranes. Exposure over occupational limits causes central nervous system depression ranging from dizziness to unconsciousness, narcosis, coma, respiratory failure and death.
Ingestion: Ingestion of large amounts causes symptoms similar to those listed under "Inhalation".
Primary Route(s) of Entry: Inhalation, eye contact, skin contact.
Target Organs: Respiratory passages, eyes, skin.
Medical Conditions Aggravated by Long-Term Exposure: Skin contact may aggravate an existing dermatitis. **Carcinogenicity:** IARC, NTP, and OSHA do not list Junk-Out™ High-Speed Chuck Cleaner or its ingredients as carcinogens.

Section 4 - First Aid Measures

Eye Contact: Flush thoroughly with water for at least 15 minutes. Get immediate medical attention.

Skin Contact: Remove contaminated clothing. Wash exposed area with soap and water. Get medical attention if symptoms persists.
Inhalation: If symptoms develop, remove affected person from source of exposure into fresh air. Get immediate medical attention. If person is not breathing, give artificial respiration. If breathing is difficult, administer oxygen if available.
Ingestion: Get immediate medical attention. Do not induce vomiting unless instructed to do so by a physician.

Section 5 - Fire-Fighting Measures

Flash Point: None
Flash Point Method: Setaflash CC
Lower Flammability Limit (LFL): None
Upper Flammability Limit (UFL): None
Autoignition Temperature: 770°F (410°C)
OSHA/NFPA Flammable/Combustible Liquid Classification: N/A
Extinguishing Media: CO_2, dry chemical, foam. Water spray may be used to keep fire exposed containers and structures cool, and to protect personnel.
Unusual Fire or Explosion Hazards: Extreme conditions of heat may produce decomposition products. Vapors may accumulate in low and confined areas.
Hazardous Combustion Products: Hydrogen fluoride, perfluoroisobutylene, carbon monoxide as well as small amounts of other toxic fumes.
Fire-Fighting Instructions: Wear a NIOSH approved positive pressure self-contained breathing apparatus with full protective clothing. Do not release runoff from fire control methods to sewers or waterways.

Section 6 - Accidental Release Measures

Spill Response: Observe precautions from other sections. Eliminate all ignition sources. Ventilate area, especially low places where heavy vapors may collect. Contain any spill with dikes or absorbents to prevent migration and entry into drains, sewers or bodies of water. Take up small spills with absorbent. Large spills may be taken up with pump or vacuum and finished off with absorbent. Wipe or scrape up saturated absorbent and place it in a proper container for disposal. Wash walking surfaces thoroughly to reduce slipping hazard. Follow applicable OSHA (29 CFR 1910.120), state and local regulations.

Section 7 - Handling and Storage

Handling Precautions: Exercise ordinary care in handling industrial lubricants. Avoid breathing vapors and mists. Avoid contact with eyes, skin and clothing. Avoid contamination of cigarettes or other tobacco products. Wash hands thoroughly before eating or smoking. Remove contaminated clothing and clean before reuse. Users should be alert to the possibility that very small percentages of the population may display unexpected allergic reactions to otherwise innocuous industrial lubricants and raw materials.
Storage Requirements: Do not store in open or unlabeled containers. Store in well-ventilated, cool, dry areas away from heat, sources of ignition and incompatibles.

Section 8 - Exposure Controls / Personal Protection

Eye Protection: Avoid eye contact. Wear safety glasses or chemical goggles in accordance with OSHA 29 CFR 1910.133.
Skin Protection: Avoid skin contact. Wear chemical protective gloves. Depending upon conditions of use, additional protection may be necessary such as a face shield, apron, etc.
Ventilation: Local exhaust ventilation is required at point of use if airborne concentrations are at or above recognized health and safety levels. Ventilation and other forms of engineering controls are the preferred means for controlling chemical exposures.
Respiratory Protection: Avoid breathing vapors and mists. If exposure limits are exceeded or if irritation or symptoms are experienced, NIOSH approved respiratory protection should be worn. Normally, a NIOSH approved respirator for organic vapors is generally acceptable. For high concentrations and for oxygen-deficient atmospheres, use a NIOSH approved air-supplied respirator. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.
Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Other Precautionary Information: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Appearance and Odor: Clear, colorless liquid with slight odor.
Vapor Pressure: 383 mmHg at 25°C
Vapor Density (Air=1): 4.8
Formula Weight: Not calculated
Specific Gravity (H_2O=1, at 4 °C): 1.37
pH: Not Determined
Water Solubility: Slight
Boiling Point: 41°C
Pour` Point: Not Determined
% Volatile: 100
Evaporation Rate (Butyl Acetate=1): 70

Section 10 - Stability and Reactivity

Stability: Junk-Out High™ Speed-Chuck Cleaner is stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization: This product will not undergo hazardous polymerization.
Chemical Incompatibilities: Strong oxidizing materials, strong acids and strong bases.
Conditions to Avoid: Pyrolysis.
Hazardous Decomposition Products: Thermal oxidative decomposition of Junk-Out™ High-Speed Chuck Cleaner can produce hydrogen fluoride, perfluoroisobutylene, carbon monoxide as well as small amounts of other toxic fumes.

Section 11- Toxicological Information

Toxicity Data: None available.

Section 12 - Ecological Information

Environmental Fate and Effects: No data has been established for this product.

Section 13 - Disposal Considerations

Disposal: Contact a licensed waste-disposal contractor for detailed recommendations.
Disposal Regulatory Requirements: Must be disposed of by a licensed firm. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101): Not Regulated

Section 15 - Regulatory Information

TSCA:
All components of this product are listed on the TSCA inventory.

EPA Regulations:

SARA 311/312 Hazard Class (40 CFR 370)

Immediate (Acute) Health Hazard	Yes	Sudden Release of Pressure Hazard	No	Reactive Hazard	No
Delayed (Chronic) Health Hazard	Yes	Fire Hazard	No		

SARA 313 Toxic Chemicals (40 CFR 372)	CAS Number	%
No ingredients listed		

SARA Extremely Hazardous Substances (40 CFR 355)	CAS Number	%	Threshold Planning Quantity (TPQ)
No ingredients listed			

CERCLA Hazardous Substances (40 CFR 302)	CAS Number	%	Reportable Quantity (RQ)
1,2-Trans-Dichloroethylene	156-60-5	49 – 51	1000 lbs.

Section 16 - Other Information

Prepared By: LSB
Disclaimer: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Nye Lubricants, Inc. makes no warranty with respect thereto and disclaims all liability with respect thereon.