

Material Safety Data Sheet

HMIS®

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

HEALTH

2

REACTIVITY

0

FLAMMABILITY

0

PERSONAL PROTECTION

A

Identity (As Used on Label and List)

45020, 45016 Electronic Parts Cleaner and Degreaser

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION I

Manufacturer's Name

ITW Dymon

Emergency Telephone Number

1-800-535-5053

Address (Number, Street, City, State, and ZIP Code)

805 East Old 56 Highway

Telephone Number for Information

1-913-397-9889

Olathe, Kansas 66061

Date Prepared

August 30, 2001

Signature of Preparer (Optional)

Regulatory Dept.

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific

Chemical Identity, Common Name(s)	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits Recommended	% (Opt.)
*1,1-Dichloro-1-fluoroethane	1717-00-6	Not estab.	Not estab.		60 - 100 %
Carbon dioxide	124-38-9	5000 ppm	5000 ppm	STEL 30000 ppm	3 - 7 %
Isopropyl Alcohol	67-63-0	500 ppm	500 ppm		1 - 5 %

* This product contains 1,1-Dichloro-1-fluoroethane which is listed and may require reporting under SARA Title III Sec. 313 if used over the threshold reporting quantity. This information must be included in all MSDSs that are copied and distributed for this material.

WARNING: Contains 1,1-Dichloro-1-fluoroethane, a substance which harms public health and the environment by destroying ozone in the upper atmosphere.

TSCA: All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

SECTION III Physical/Chemical Characteristics

Boiling Point Concentrate	84.9 ° F	Specific Gravity (H ₂ O = 1) Concentrate @70 ° F	1.224
Pressure (psig. @ 70 ° F)	85 ± 5	Melting Point	No Data
Vapor Density (AIR = 1)	Greater than one (1)	Evaporation Rate (Butyl Acetate = 1)	No Data
Solubility in Water	Slight	pH	Not Applicable

Appearance and Odor -

Clear colorless liquid with a faint ethereal odor in an aerosol can.

SECTION IV - Fire and Explosion Hazard Data

USA Flame Projection Test (ASTM D-3065) 0", no flashback; Not flammable	Flammable Limits	LEL No Data	UEL No Data
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Extinguishing Media - Not usually necessary as this material does not readily support combustion. Use carbon dioxide, dry chemical or water spray if needed.

Special Fire Fighting Procedures - Use water spray to keep containers cool and vapors down. Do not allow runoff to enter sewers or public watercourses. Wear self-contained breathing apparatus in chemical fires.

Unusual Fire and Explosion Hazards -

Aerosol container (pressurized) may burst if heated over 120 ° F.

SECTION V - Reactivity Data

Stability	Unstable		Conditions to Avoid - Extreme heat, direct sunlight
	Stable	X	

Incompatibility (Materials to Avoid) - Strong acids and alkalis, magnesium and alloys containing more than 2% magnesium. Powdered or freshly abraded aluminum. All finely divided metals. Some desiccants may be reactive. May react violently with sodium, potassium, calcium, zinc, molten aluminum, lithium shavings, barium and other alkali or alkaline earth metals. Plastics, in particular, polycarbonate plastics such as Lexan® (if in doubt contact the equipment manufacturer).

Hazardous Decomposition or Byproducts - Halogen acids, carbonyl halogenides, smoke, soot and other organic oxidation products. Under high temperature conditions (above 250° F), decomposition to hydrochloric acid, hydrofluoric acid and carbonyl halides such as phosgene may form.

Hazardous Polymerization	May Occur		Conditions to Avoid - None known
	Will Not Occur	X	

SECTION VI - Health Hazard Data

Route(s) of Entry	Eyes?	Inhalation?	Skin?	Ingestion?
	Yes	Yes	No	Yes

Health Hazards (Acute and Chronic) - Warning. Harmful if swallowed. Causes eye irritation (direct liquid contact). May cause skin irritation. May be harmful if inhaled. Very high concentrations may produce central nervous system or anesthetic effects, cardiac arrhythmia or in extreme cases oxygen displacement may leading to asphyxia. Follow good chemical hygiene practices.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
None known	No	No	No

Signs and Symptoms of Exposure - Redness, tearing or burning in eyes. Red or dry skin. Drowsiness or dizziness if ventilation is inadequate. Irritation of throat and digestive tract if swallowed.

Medical Conditions Generally Aggravated by Exposure - Pre-existing skin and cardiac conditions may be adversely affected.

Emergency and First Aid Procedures: **Eyes** - Flush with plenty of water for at least 15 minutes lifting eyelids to insure complete removal. Get immediate medical attention. **Ingestion** - Administer activated charcoal (3 tablespoonfuls mixed in a glass of water). Induce vomiting. Call a physician or poison control center immediately. **Inhalation** - Get to fresh air. If breathing has stopped, qualified personnel should administer artificial respiration. **Skin** - Remove all contaminated clothing. Clean with water and soap and rub with a skin protecting cream. If irritation arises and persists, call a physician. **Note to physician** - Do not administer adrenaline or similar sympathomimetic drugs.

SECTION VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled - Caution, slip hazard. Limit foot traffic until product evaporates. For large spills, isolate traffic and ventilate area. Eliminate all ignition sources. Wear protective gear as necessary. Dike to prevent spread. Pick up with absorbent and put in a suitable container for proper disposal.

Waste Disposal Method - Consult local, state and federal regulations. Do not puncture or incinerate container. Replace cap on empty can, wrap, then discard container if allowed by applicable statutes.

Precautions to be Taken in Handling and Storing - Do not swallow. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid inhaling mist and vapors. Use with adequate ventilation. Store in a cool (under 120° F) dry location away from heat, sparks, open flame, and direct sunlight. Do not use on sensitive electronic equipment such as tape decks, VCRs, computers, etc.

Other Precautions - Follow label directions carefully. Keep out of reach of children. Do not deliberately concentrate and inhale vapors. Direct spray away from face. Replace cap when not in use. Do not use around ignition sources such as heat, sparks, open flame, etc. Do not puncture or incinerate container. Do not smoke while using.

SECTION VIII - Control Measures

Respiratory Protection (Specify Type) - Not usually necessary. Use with adequate ventilation. If PELs or TLVs are exceeded (see Section II), use an approved NIOSH/MSHA respirator.

Ventilation	Local Exhaust	Acceptable	Special	None
	Mechanical (General)	Yes	Other	None

Protective Gloves -
Only if direct contact is possible

Eye Protection -
Yes, goggles or approved safety glasses (ANSI Z87)

Other Protective Clothing or Equipment - Not usually needed. If direct contact is possible wear apron, boots, face shield, etc. as required.

Work/Hygienic Practices - Normal. Wash thoroughly before eating, drinking, smoking, using restrooms, etc.

WARNING: The use of this product is beyond the control of the manufacturer, therefore, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established user must assume all responsibility, including injury or damage.
DESCRIPTION, QUALITY,
AS TO
MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE PROPER USE OF THIS PRODUCT. The sole and exclusive remedy against the manufacturer for
breach of PERSON
OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.