MAGNAFLUX

HMIS
H HEALTH 2
F FLAMMABILITY 0
R REACTIVITY 1
PERSONAL PROTECTION B

MAGNAFLUX CORPORATION MATERIAL SAFETY DATA SHEET

PRODUCT: SKC-NF/ZC-7B CLEANER/REMOVER

1. IDENTIFICATION

ADDRESS: 7300 West Lawrence Avenue, Chicago, Illinois 60656
TELEPHONE: (312) 867-8000
PACKAGES: 1 gallon can, 5 gallon pail, 55 gallon drum, 12 oz aerosol
CHEMICAL FAMILY: Chlorinated Alkane
HMIS RATING: Health 2, flammability 0, Reactivity 1

2. HAZARDOUS INGREDIENTS

1,1,1-Trichloroethane (Methyl chloroform), CAS #71-55-6, TLV: 350 ppm, Conc. 100% Bulk, 95% Aerosol
Carbon dioxide (aerosol only), CAS #124-38-9, TLV: 5000 ppm, Conc. 5%
Dioxane, CAS #123-91-1, TLV: 25 ppm, Conc. about 1%

Contains no other ingredient suspected of being hazardous according to information sources given in 29 CFR 1910.1200, OSHA Hazard Communication Rule.

3. HEALTH HAZARD

THRESHOLD LIMIT VALUE: 350 ppm

ROUTES OF ENTRY, EFFECTS OF OVEREXPOSURE

Inhalation: Dizziness, drowsiness, nausea. Unconsciousness at high exposure
Skin Contact: Irritates by dissolving skin oils. Not absorbed through skin in significant amounts
Eye Contact: Irritating due to strong solvent action
Ingestion: Low single dose toxicity in test animals

CARCINOGENICITY: The first and third listed ingredients are currently under investigation as possible carcinogens.

MEDICAL CONDITIONS KNOWN TO BE AGGRAVATED BY EXPOSURE TO PRODUCT: None

4. FIRST AID

INHALATION: Remove to fresh air. If not breathing, call emergency vehicle immediately. Give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen.
SKIN CONTACT: Wash off in flowing water or shower. Remove contaminated clothes and wash before re-use. Use soothing lotion.
EYE CONTACT: Lift upper eyelid, depress lower eyelid, and flush eye with a steady, gentle flow of water. Roll eyeball in all directions while flushing.
INGESTION: Do not induce vomiting; if vomit is inhaled, it may cause asphyxiation. Contact physician immediately.

IMPORTANT: **POISON CONTROL CENTER NUMBER**
In all severe cases, contact physician immediately. Local telephone operators are able to furnish number of Regional Poison Control Center to assist physician.

5. **FIRE HAZARD**

PRIMARY HAZARD: Can be a major contributing factor to a fire in progress.

SPECIAL FIRE FIGHTING PROCEDURE: Keep containers cool with water spray.

FLASH POINT: None

FLAMMABLE LIMITS IN AIR: 10 - 15%, using intense ignition sources.

EXTINGUISHING MEDIA: None

UNUSUAL FIRE HAZARDS: Aerosol cans may burst at temperatures over 130°F. Vapors partially decompose to toxic gases when exposed to flame, arcs, or red hot surfac

6. **REACTIVITY HAZARDS**

STABILITY: Partially decomposes in flame, arcs, near red hot surfaces.

INCOMPATIBILITY: Powdered zinc and aluminum

HAZARDOUS DECOMPOSITION PRODUCTS: Phosgene, hydrochloric acid. Phosgene CAS #75-44-5 is extre toxic, TLV 0.1 ppm and cannot be reliably detected by odor. Hydrochoric acid CAS #7647-01-0 is almost as toxic, TLV 5 ppm, and is detectable and even irritating at this concentration.

7. **SAFE HANDLING PROCEDURES**

GENERAL: Do not breathe vapors. Exposures above the TLV can result in clumsiness and poor j ment, with resulting danger to the victim and those around him. Much like ingestin much alcohol. If victim is unconscious, death is possible, due to either suffocati (lack of oxygen), or cardiac arrest. For avoidance see next two sections.

Avoid frequent or prolonged exposure to skin as the solvent can irritate skin. Do not use around flame, arcs, red hot surfaces or lighted smoking materials, so as avoid exposure to phosgene and hydrochloric acid.

Do not heat aerosol cans above 130°F to eliminate the possibility of their bursting releasing unwanted vapors.

Store away from heat sources to minimize the danger from exposure to fires.

PERSONAL PROTECTIVE EQUIPMENT:

In poorly ventilated areas such as small rooms with no windows, or in sumps or othe areas (SKC-NF vapors are dense and sink to low spots) the user should wear a respir with chemical cartridge

In confined, unventilated spaces, such as the inside of tanks or small compartments inspector should wear a full mask with separate air supply

If hand exposure to SKC-NF is unavoidable, wear nitrile rubber gloves, to avoid ski contact.

Wear full goggles if the application of SKC-NF includes splashing or the possibili spraying into the eyes. Be sure the goggles are clean and not apt to degrade the inspection procedure.

CONTROLS: SKC-NF vapors cannot be allowed to collect. It is preferred to use SKC-NF either spray booth or next to an exhaust vent. Remember that the vapors tend to settle t floor.

General ventilation must be sufficient to keep the concentration below 350 ppm. A all of the SKC-NF that is used will evaporate into the surrounding air. Base vent tion rate on consumption.

DISPOSAL

SPILLS AND LEAKS: Less than 1 Quart - Wipe up, following guidelines above in "Safe Handling Procedure'

One quart or more - **EVACUATE AREA.** Ensure that clean up crew wears all personal safety wear as presented in "Safe Handling Procedure". The nose is NOT a reliable gauge of air contamination.

WASTE DISPOSAL: Dispose of as EPA hazardous waste #F002.
May be sent to solvent reclaimer. Ensure that aerosol cans are empty and depressurized before discarding, unless a waste treatment facility is approved to accept them as is.

9. ## PHYSICAL PROPERTIES

BOILING POINT:	162°F	**VAPOR PRESSURE:**	230 mm at 100°F
PERCENT VOLATILE:	100%	**VAPOR DENSITY:**	4
DENSITY:	1.3	**EVAPORATION RATE:**	3 times faster than ethyl alcohol
WATER SOLUBILITY:	Negligible	**APPEARANCE:**	Clear, colorless, mobile liquid
pH:	Neutral		

WARNING PROPERTIES: Odor can be detected at 100 ppm, but is not strong enough to cause discomfort at 1000 ppm.

10. ## DOT SHIPPING

SHIPPING NAME:	For Bulk - Methyl Chloroform
	For Aerosol - Compressed Gas, N.O.S.
MARKING:	For Bulk - None
	For Aerosol - Nonflammable Gas
HAZARD CLASS:	For Bulk - ORM-A
	For Aerosol - Nonflammable Gas
IDENTIFICATION:	For Bulk - UN2831
	For Aerosol - UN1956

11. ## CERTIFIED

DATE: October 7, 1986
Supercedes MSDS dated April 25, 1986

SIGNED: 

Bruce C. Graham, Chief Chemist
MAGNAFLUX Corporation

7300 West Lawrence Avenue | Chicago, Illinois 60656