

MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION # : 314-647-1888
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I-PRODUCT IDENTIFICATION

DYNA-SOL

PRODUCT CODE: #086, #086A

CHEMICAL FORMULATION:

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	CAS No.	OSHA PEL	ACGIH TLV	WEIGHT %
1,1,1, TRICHLOROETHANE*	71-55-6	350ppm	350ppm	90-100%
CARBON DIOXIDE	124-38-9	5000ppm	5000ppm	

*Sara 313 Information:

Subject to the reporting and supplier notification of SARA 313.

* RQ #1 1000 LBS

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit

N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - PHYSICAL DATA

BOILING POINT (°f): N/A	MELTING POINT: N/A
VAPOR PRESSURE (psig@25C): 75psig	SPECIFIC GRAVITY (H20=1): 1.30
VAPOR DENSITY (AIR=1) >1	
SOLUBILITY IN WATER: INSOLUBLE	EVAPORATION RATE (Butyl Acetate=1): >1
	pH(@25C): N/A
APPEARANCE AND ODOR: WATER WHITE-SWEET ETHERAL ODOR	

IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (Method used): NONE

(TEST METHOD):

FLAMMABLE LIMITS: N/E

UPPER: N/A

LOWER: N/A

FLAME PROJECTION: NONE

EXTINGUISHING MEDIA: CO2, STANDARD FOAM, DRY CHEMICAL, HALON

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS

UNUSUAL FIRE AND EXPLOSION HAZARD: EXPOSURE TO TEMPERATURES OVER 120 DEGREES F MAY CAUSE BURSTING OR VENTING. HEAT OR FIRE MAY CAUSE HAZARDOUS FUMES: CARBON MONOXIDE, PHOSGENE

V - REACTIVITY DATA

STABILITY:	STABLE
INCOMPATIBILITY:	OXIDIZING MATERIALS
CONDITIONS TO AVOID:	AVOID OXIDIZING MATERIALS
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:	OPEN FLAMES MAY CAUSE CARBON MONOXIDE PHOSGENE
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
CONDITIONS TO AVOID:	SOURCES OF HEAT

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VI - HEALTH AND HAZARD DATA

GENERAL: TOXICITY INFORMATION IS NOT AVAILABLE FOR THESE FINISHED PRODUCTS. THIS HEALTH HAZARD ASSESSMENT IS BASED ON INFORMATION AVAILABLE FOR THE COMPONENTS IN THE FINISHED PRODUCT.

THRESHOLD LIMIT VALUE: N/E

OSHA & ACGIH: N/E

CARCINOGEN - NTP & IARC PROGRAM: NOT CONSIDERED A CARCINOGEN

SYMPTOMS OF EXPOSURE

EYES: MAY CAUSE IRRITATION, REDNESS, OR WATERING

SKIN: MAY CAUSE ITCHING, DRYNESS, REDNESS, OR IRRITATION

INGESTION: NAUSEA, HEADACHE, VOMITING

INHALATION: LARGE AMOUNTS OF VAPORS MAY CAUSE NAUSEA, OR DIZZINESS

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: SKIN SENSITIVITY, CHEMICAL ALLERGIES

PRIMARY ROUTE(S) OF ENTRY: EYES, SKIN, INGESTION, INHALATION

EMERGENCY FIRST AID

IF IN EYES: FLUSH WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION

IF ON SKIN: WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION

IF INGESTED: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION

IF INHALED: REMOVE TO FRESH AIR.

VII - SPILL AND LEAK PROTECTION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION. DIKE AREA IF POSSIBLE FOR MATERIAL RECOVERY. SMALL QUANTITIES MAY BE ABSORBED WITH ABSORBENT MATERIALS

WASTE DISPOSAL METHOD: DISPOSE OF IN A MANNER APPROVED BY LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS EPA STANDARDS.

VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: GENERAL VENTILATION RECOMMENDED TO MAINTAIN THE LEVEL OF THE HAZARDOUS INGREDIENTS TO LESS THAN HALF OF THE TLV.

RESPIRATORY PROTECTION: NOT REQUIRED

PROTECTIVE GLOVES: RUBBER GLOVES. FOR SHORT USAGE NONE REQUIRED

EYE PROTECTION: SAFETY GOGGLES. FOR SHORT USAGE NONE REQUIRED

OTHER PROTECTIVE EQUIPMENT: NONE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DO NOT STORE WHERE TEMPERATURES EXCEED 120 DEGREES FAHRENHEIT.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN

WORK/HYGIENIC PRACTICES: NONE

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Prepared By:

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