

MATERIAL SAFETY DATA SHEET

I. PRODUCT NAME AND MANUFACTURER

PRODUCT NAME: **D-56 THINNER** MSDS NO. **200010**

MATTHEWS INTERNATIONAL CORPORATION
BRAND SOLUTIONS AMERICAS
252 RIDC Park West Drive
Pittsburgh, PA 15275
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II. PRODUCT INGREDIENTS

INGREDIENTS	%	CAS NO.	PEL	TLV	LD50
Ethyl Acetate	30-35	141-78-6	NE*	400ppm	>9999 mg/kg oral, rat
Isopropyl Acetate	30-35	108-21-4	NE*	250 ppm	N/AV
Heptane	30-35	142-82-5	NE*	400ppm	N/AV

*NE: Not Established

III. POTENTIAL HEALTH EFFECTS

EMERGENCY OVERVIEW: Clear translucent liquid with strong ester odor. Extremely flammable. Vapors can cause flash fire.
EYES: Will cause irritation, redness, tearing, and blurred vision.
SKIN: May cause irritation, defatting, and dermatitis.
INHALATION: Anesthetic. Irritates respiratory tract. Acute over exposure can cause serious nervous system depression. Vapors are harmful.
INGESTION: Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting, and diarrhea.
TARGET ORGANS: Eyes, Skin, Respiratory system, Central Nervous System.

IV. FIRST AID

EYES: Flush with large amounts of water, lifting upper and lower lids occasionally, for at least 15 minutes. Seek medical attention.
SKIN: In case of contact with the skin, immediately flush the affected area with large amounts of soap and water. Remove contaminated clothing as water is applied, wash contaminated clothing before reuse. Seek medical attention if irritation persists.
INHALATION: After high vapor exposure, remove to fresh air immediately. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Keep warm and quiet. Get medical attention immediately.
INGESTION: If swallowed, CALL A PHYSICIAN IMMEDIATELY. Never give anything by mouth to an unconscious person.

V. FIREFIGHTING INSTRUCTIONS

FLASH POINT (Method Use): 20 F (-6 C)
AUTO-IGNITION TEMPERATURE: No data
EXTINGUISHING MEDIA: Use NFPA Class B Fire Extinguisher (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred on large fires.
SPECIAL PROCEDURES: Fire fighters should wear SCBA. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build up and possible autoignition when exposed to extreme heat. If water is used, fog nozzles are preferable.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable. May be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Container may explode violently in heat of fire. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

VI. ACCIDENT RESPONSE MEASURES

CHEMTREC TELEPHONE: 800-424-9300 NATIONAL SPILL RESPONSE CENTER: 800-424-8802

PERSONAL PRECAUTIONS: Eliminate all ignition sources.

ENVIRONMENTAL PRECAUTIONS: Prevent run-off from entering drains, sewers or streams.

METHODS OF CLEANUP: 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.

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Product Name: D-56 Thinner

MSDS # 200010

VII. SAFE HANDLING AND STORAGE

HANDLING PRECAUTIONS: Avoid contact with skin and eyes. Avoid breathing of vapor or spray mist. DO NOT flame cut, saw, drill, braze or weld containers. Empty containers are very hazardous. Continue all label precautions.

SAFE HANDLING ADVICE: Wear gloves, apron, and footwear impervious to material. Wash clothing before reuse.

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

CONDITIONS TO AVOID: Keep from contact with strong oxidizing agents.

VIII. ENGINEERING CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Ventilate to keep vapors of this material below TLV's. If over the TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive pressure self contained breathing apparatus. Use explosion proof equipment. Use only with adequate ventilation.

RESPIRATORY: If PEL is exceeded, use of NIOSH approved air purifying respirator fitted with organic vapor cartridges is advised.

GLOVES: Solvent impermeable gloves.

EYE / FACE: Chemical splash goggles.

OTHER PPE: To prevent repeated or prolonged skin contact, wear impervious clothing and boots. Eyewash facility, safety shower is recommended.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 161-207 F, 71-97 C

MELTING POINT: NA

VAPOR PRESSURE: 57.9 mm Hg @ 20C

VAPOR DENSITY (Air =1): 3.3

pH: NA

SPECIFIC GRAVITY (H₂O =1): 0.819, 6.8 lb/gal

VOLATILE BY VOLUME: 100%

VOC: 6.8lb./gal, 818 g/l (less water)

SOLUBLE IN WATER? Appreciable

EVAPORATION RATE: (Butyl Acetate =1) >1

ODOR AND APPEARANCE: Water-white liquid, translucent with ester odor.

X. STABILITY AND REACTIVITY

STABILITY: Normally stable.

CONDITIONS TO AVOID: Excessive heat (>115 F, (46 C), sparks, electrical equipment, open flame, oxidizers.

INCOMPATIBILITY: Strong oxidizing materials, such as permanganates, chromates, and peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning, welding or cutting may produce smoke, carbon monoxide, and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

XI. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC TOXICITY: This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH greater to or equal to 0.1%. This product may contain less than 100 ppm of benzene.

SENSITIZATION: Not expected to occur under normal use conditions.

SPECIFIC EFFECTS: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

XII. ECOLOGICAL INFORMATION

POSSIBLE ENVIRONMENTAL EFFECTS: High biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, ready biodegradability by an unacclimated microorganism, a low potential to bioconcentrate (for ETHYL ACETATE).

XIII. DISPOSAL INFORMATION

WASTE DISPOSAL: Dispose of in accordance with all local, state, and provincial and federal regulations.

XIV. TRANSPORTATION INFORMATION

LAND (DOT): Regulated, Flammable Liquid, Class 3, Packaging Group II

PROPER SHIPPING NAME: Flammable Liquid, N.O.S., III, UN 1993, PG II (contains Heptane, ethyl acetate)

The US Code of Federal Transportations, Regulations, and the policies established by some transporters require that the shipper properly classify and assign a Proper Shipping Name and label, mark and package the material properly. Therefore the user of this information is cautioned to consult with applicable regulations and with qualified advisors prior to the repackaging and/or reshipment of this or any other product which contain this product.

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MSDS # 200010

XV. REGULATORY INFORMATION

HAZARD AND SAFETY INFORMATION: TSCA - all ingredients listed. SARA 313 - none. SARA 311, 312 - Acute health hazard, fire hazard. WHMIS - Isopropyl acetate & ethyl acetate listed, classifications - B/2: EINECS: Ethyl acetate - #205-500-4, Isopropyl acetate - listed. EU R & S PHRASES: R11 - Highly flammable, R36 - Irritating to eyes, R66- Repeated exposure may cause skin dryness or cracking, R67- Vapors may cause drowsiness or dizziness, S9 - Keep container in a well ventilated place, S16 - Keep away from sources of ignition - No smoking, S23- Do not breathe gas/fumes/vapor/spray, S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S29- Do not empty into drains, S33 - Take precautionary measures against static discharged. OZONE DEPLETING CHEMICALS: None. CAA HAPS: None under section 112 1990 CAA. HMIS: Health 1 Flammability 3 Reactivity 0

XVI. OTHER INFORMATION

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