MSDS

SECTION 1 – Chemical Product and Company Identification

U S CHEMICAL & PLASTICS
An Alco Industries Company
600 Nova Drive SE
Massillon, OH 44646
PH 330-830-6000 - FAX 330-830-6005

For Chemical Emergency:
CHEMTREC: 1-800-424-9300

PRODUCT NAME: **Fast Activator for 4.2 VOC Glamour Clear**
PRODUCT CODE: **(999524), 42-4**
SYNONYM/CROSS REFERENCE: **Hardener and Activator**
SCHEDULE B NUMBER: **3208.00.0000**

SECTION 2 – Hazard Identification

OVEREXPOSURE EFFECTS:
ACUTE EFFECTS:
EYES: Contact with eyes can cause irritation, redness, tearing, blurred vision, and/or swelling.
SKIN: Contact with skin can cause irritation, (minor itching, burning and/or redness), dermatitis, defatting may be readily absorbed through the skin.
INHALATION: Inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and/or asphyxiation. Aspiration of material into lungs may result in chemical pneumonitis which can be fatal. May be toxic.
INGESTION: Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

PRIMARY ROUTES OF EXPOSURE: Inhalation, skin, eyes

SECTION 3 – Composition, Information or Ingredients

INGREDIENTS	WGT%	CAS #
Polymeric Isocyanate	70-80%	28182-81-2
Hexamethylene Diisocyanate (HDI)	<0.1%	822-06-0
Aromatic Hydrocarbons	5-10%	64742-95-6
Methyl Amyl Ketone	5-10%	110-43-0
n-Butyl Acetate	5-10%	123-86-4
Isophorone Diisocyanate	<0.20%	4098-71-9
Trimethyl Benzene	1-5%	25551-13-7

SECTION 4 – First Aid Measures

INHALATION: If inhaled, remove victim from exposure to a well-ventilated area. Make them comfortably warm, but not hot. Use oxygen or artificial respiration as required. Consult a physician.
SKIN: For skin contact, wash promptly with soap and excess water.
EYES: For eye contact, flush promptly with excess water for at least fifteen minutes. Consult a physician.
INGESTION: If ingested, do not induce vomiting. Give victim a glass of water. Call a physician immediately.

SECTION 5 – Fire-Fighting Measures

FIRE EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam
SPECIAL FIRE FIGHTING PROCEDURES: Fight like a fuel oil fire. Cool fire exposed containers with water spray. Firefighter should wear OSHA/NIOSH approved self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARD: Closed containers exposed to high temperatures, such as fire conditions may rupture.

SECTION 6 – Accidental Release Measures

SPILLS, LEAK OR RELEASE: Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapor. Contain spill with inert absorbent. Spray with mixture of detergent and water to decontaminate spill area.

SECTION 7 – Handling and Storage

STORAGE AND HANDLING: Use with adequate ventilation. Harmful or fatal if swallowed. Avoid contact with eyes and skin. Avoid breathing vapors. Do not store the product above 100°F/38°C. Do not flame, cut, braze weld or melt empty containers. Keep the product away from heat, open flame, and other sources of ignition. Avoid contact with strong acids, alkalis, and oxidizers.

SECTION 8 – Exposure Controls and Personal Protection

INGREDIENTS	CAS #	TLV/PEL
Polymeric Isocyanate	28182-81-2	N/E
Hexamethylene Diisocyanate (HDI)	822-06-0	TLV 0.005 ppm
Aromatic Hydrocarbons	64742-95-6	TLV/PEL: 50 ppm
Methyl Amyl Ketone	110-43-0	TLV:50 ppm; PEL 100 ppm
n-Butyl Acetate	123-86-4	TLV/PEL: 150 ppm
Isophorone Diisocyanate	4098-71-9	TLV/PEL: 0.005 ppm
Trimethyl Benzene	25551-13-7	TLV/PEL: 25 ppm

RESPIRATORY PROTECTION: If component exposure limits are exceeded, use NIOSH/MSHA approved air purifying or fresh air supplied respirator to remove vapors. Use an air-supplied respirator if necessary. For isocyanates, use TC-19C positive pressure supplied respirator or equivalent.
VENTILATION: Use adequate ventilation in volume and pattern to keep TLV/PEL below recommended levels. Explosion-proof ventilation may be necessary.
PROTECTIVE GLOVES: To prevent prolonged exposure use rubber gloves; solvents may be absorbed through the skin.
EYE PROTECTION: Safety Glasses or goggles with splash guards or side shields.
OTHER PROTECTIVE EQUIPMENT: Wear protective clothing as required to prevent skin contact.

SECTION 9 – Physical and Chemical Properties

FLASH POINT: 76°F/24°C Seta Flash Closed cup
LOWER FLAMMABLE LIMIT %: N/E
UPPER FLAMMABLE LIMIT %: N/E
APPEARANCE: Clear liquid, solvent odor
SPECIFIC GRAVITY: 1.07
VAPOR PRESSURE (mmHG): N/E
BOILING POINT: N/E
VAPOR DENSITY: Heavier than air

EVAPORATION RATE (Ethyl Ether = 1): Slower than Ethyl Ether
VOLATILES BY WEIGHT: Approximately 27%
SOLUBILITY IN WATER: Insoluble
VOC (less water & exempts): 283 g/l 2.37 lbs/gal
VOC as packaged (less water & exempts): 283 g/l 2.37 lbs/gal

SECTION 10 – Stability and Reactivity

STABILITY: Stable
CONDITIONS TO AVOID: Open flames, sparks, heat, electrical and static discharge.
INCOMPATIBILITY MATERIALS TO AVOID: Strong acids, alkalis, oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, and Carbon.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 – Toxicological Information

CHRONIC EFFECTS:
Overexposure to this material has apparently been known to cause the following effects in lab animals: Lung damage, central nervous system damage, sensitization, corneal opacity, pulmonary edema

ISOCYANATES/DIISOCYANATES
Aliphatic Polyisocyanate or Polymeric Isophorone Diisocyanate or Polyisocyanate:
Repeated exposure may cause allergic skin rash, itching, swelling. Repeated overexposure to Isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough which may be permanent or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposure.
1,6 Hexamethylene Diisocyanate:
May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

CARCINOGEN: YES __ NO X
TERATOGEN: YES __ NO X
MUTAGEN: YES __ NO X

SECTION 12 – Ecological Information

N/E

SECTION 13 – Disposal Considerations

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

SECTION 14 – Transport Information

For Ground Transport: In USA
Consumer Commodity ORM-D or Limited Quantity in cases with inner containers 5 Liters or less.

For Air Transport:
Must be re-boxed to UN specified packaging.
UN1263, Paint, 3, PG III
Packing Instruction 355, 366

For Ocean Transport:
With inner containers of 5L or less:
UN1263, Paint, 3, PG III, F/P 24C
EMS # F-E, S-E
In limited quantity

SECTION 15 – Regulatory Information

CALIFORNIA PROPOSITION 65:
This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 313 SUPPLIER NOTIFICATION:
This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

CHEMICAL NAME	CAS	% BY WGT

N/A

This information must be included in all MSDS that are copied and distributed for this chemical.

DO NOT FLAME CUT, WELD OR MELT EMPTY CONTAINERS.

SECTION 16 – Other Information

HMIS RATING:	Health	2	4 = Extreme
	Fire	3	3 = High
	Reactivity	1	2 = Moderate
			1 = Slight
			0 = Insignificant

Personal Protection - See Section VIII

MSDS

ABBREVIATIONS

IARC = International Agency for Research on Cancer
ACGIH = American Conference of Governmental Industrial Hygienists
NIOSH = National Institute of Occupational Safety and Health
TLV = Threshold Limit Value
PEL = Permissible Emission Level
DOT = Department of Transportation
NTP = National Toxicology Program
N/AV = Not Available
N/AP = Not Applicable
N/E = Not Established
N/D = Not Determined

PREPARED BY: U S CHEMICAL & PLASTICS
An Alco Industries Company
600 NOVA DRIVE SE
MASSILLON, OH 44646

TELEPHONE NBR: 330-830-6000
FAX NBR: 330-830-6005

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The information in the Material Safety Data Sheet has been compiled from our experience and from data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of the safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the Company to make sure that the MSDS is the latest one issued.