

## M A T E R I A L   S A F E T Y   D A T A   S H E E T

## I. IDENTIFICATION

MANUFACTURED BY: Vogel Automotive Coatings  
1020 Albany Place SE  
Orange City, IA 51041

REVISED: 04/17/2007  
PRINTED: 04/24/2007

**24 Hour Emergency Telephone**  
**CHEMTREC 1-800-424-9300**

General Information:  
Mon-Fri 8 AM - 5 PM  
712-737-4993

**TRADE NAME: AXIS REACTIVE REDUCER - MEDIUM**

**MFG. PRODUCT NUMBER: ABR-04105**

## II. HAZARDOUS INGREDIENTS

CAS #108-88-3	Toluene	WT %: 50-75	Footnote: (1)
ACGIH TLV: 50 ppm TWA	ACGIH STEL:		
OSHA PEL: 200 ppm TWA	OSHA CEILING: 300 ppm	OSHA PEAK: 500 ppm	
VAPOR PRESSURE: 23.0 mm Hg	LEL%: 1.3		
CAS #763-69-9	Ethyl 3-Ethoxypropionate	WT %: 5-20	Footnote: (1)
ACGIH TLV:	ACGIH STEL:		
OSHA PEL:	OSHA CEILING:	OSHA PEAK:	
VAPOR PRESSURE: 1.5mm Hg25C	LEL%: 1.05		
CAS #123-86-4	Butyl Acetate	WT %: 5-20	Footnote: (1)
ACGIH TLV: 150 ppm TWA	ACGIH STEL: 200 ppm		
OSHA PEL: 150 ppm TWA	OSHA CEILING:	OSHA PEAK:	
VAPOR PRESSURE: 7.8mm Hg20C	LEL%: 1.7		
CAS #108-10-1	Methyl Isobutyl Ketone	WT %: 5-20	Footnote: (1)
ACGIH TLV: 50 ppm TWA	ACGIH STEL: 75 ppm		
OSHA PEL: 100 ppm TWA	OSHA CEILING:	OSHA PEAK:	
VAPOR PRESSURE: 15mm Hg20C	LEL%: 1.2		

## WARNING MESSAGES:

- (1) Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Chronic exposure may cause damage to the central nervous system, respiratory system, lung, eye, skin, liver, gastrointestinal tract, spleen, kidneys, and blood.
- (2) See Section IX for reportable Hazardous Air Pollutants.

## III. PHYSICAL DATA

BOILING RANGE: 230-329° F

EVAPORATION RATE: \* slower than ether \*

PERCENT VOLATILE BY VOLUME: 97.87%

WEIGHT PER GALLON: 7.25 LBS

VAPOR DENSITY: \* heavier than air \*

ACTUAL VOC (lb/gal): 7.06

EPA VOC (lb/gal): 7.06

EPA VOC (g/L): 846.07

**IV. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: 6° C 43° F LEL: Refer to Section II

FLAMMABILITY CLASSIFICATION: CLASS 1B

HAZARD CLASSIFICATION: \*Flammable Liquid

EXTINGUISHING MEDIA: \*carbon dioxide, dry chemical, or fire foam\*

UNUSUAL FIRE AND EXPLOSION HAZARDS: With excessive heat, cans will rupture from internal pressure and discharge flammable contents. Vapors may ignite explosively. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build up of vapors by opening all windows and doors to achieve cross-ventilation.

SPECIAL FIRE FIGHTING PROCEDURE: Burning will produce toxic fumes. Wear self-contained breathing apparatus and full turn-out gear to fight fires.

**V. HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE: See Section II.

EFFECTS OF OVEREXPOSURE:

ACUTE: High vapor concentrations are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

CHRONIC: None recognized.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: consult physician

PRIMARY ROUTE(S) OF ENTRY: Skin and Inhalation

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Restore breathing. Treat symptomatically. Consult a physician.

EYES: Flush immediately with large amounts of water for at least 15 minutes. Talk to a physician for medical treatment.

SKIN: Wipe off with towel. Wash with soap and water. Remove contaminated clothing.

INGESTION: If swallowed, call a physician immediately. Remove

stomach contents by gastric suction or induce vomiting only as directed by a medical personnel. Never give anything by mouth to an unconscious person.

## VI. REACTIVITY DATA

STABILITY: \*stable\*                      HAZARDOUS POLYMERIZATION: \*will not occur\*

INCOMPATIBILITY: Material can react violently with strong bases, strong oxidizing agents, strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Fire, burning and welding may generate carbon monoxide.

CONDITIONS TO AVOID: Fire, burning, and welding.

## VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. Use non-sparking tools. Remove with inert absorbant.

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

## VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: In confined areas of poor ventilation, use chemical cartridge respirator or self-contained breathing apparatus.

VENTILATION: Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV and LEL of most hazardous ingredient in Section II, below acceptable limit.

PROTECTIVE GLOVES: None required except for prolonged contact.

EYE PROTECTION:

Splash proof eye goggles. In emergency situations, use eye goggles with a full face shield.

OTHER PROTECTIVE EQUIPMENT: \*none\*

HYGIENIC PRACTICES: See Section V

## IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store near heat, sparks, or flame.

OTHER PRECAUTIONS: \* none \*

LIST OF HAZARDOUS AIR POLLUTANTS SUBJECT TO THE PROVISIONS OF THE CLEAN AIR ACT, TITLE I SECTION 112 'National Emission Standards for Hazardous Air Pollutants':

Ingredient	CAS #	Wt% of HAPS in product	Pounds HAPS/ Gal product
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Toluene	108-88-3	52.9 %	3.8
Methyl Isobutyl Ketone	108-10-1	18.4 %	1.3

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