

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

PRODUCT IDENTITY – SECTION I

Product Name: ALTUS SERIES IN-FORM RETARDER CAS #: See below Manufacturer: Arcal Chemicals, Inc. Address: 223 Westhampton Avenue Capitol Heights, MD 20743	Emergency Tele: Chem Trec 800-424-9300 Revision Date: 01 December 2009 Other Tele: 301-336-9300 Fax: 301-336-6597
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HAZARDOUS INGREDIENTS / OTHER COMPONENTS – SECTION II

MATERIAL / CAS #	%	ACGIH (TLV – TWA)	OSHA (PEL -TWA)
Aliphatic Hydrocarbon 64742-49-0		NOT ESTABLISHED	300 ppm

PHYSICAL DATA – SECTION III

APPEARANCE Paint Like - Opaque	ODOR Solvent odor	MELT POINT N/A	SPECIFIC GRAVITY 1.2
VAPOR DENSITY 3.8 at (1 atm_ AIR = 1)	% VOLATILE BY VOLUME 60%	BULK DENSITY N/A	BOILING POINT 110 - 120 °C
VAPOR PRESSURE 18 mmHg at 68°F	% SOLUBILITY (H2O) Negligible		

FIRE AND EXPLOSION HAZARD DATA – SECTION IV

FLASH POINT & METHOD: 45°F by TCC	NFPA FIRE HAZARDS
FLAMMABLE LIMITS LEL: 1.3 UEL: 10.2 @ 77°F (APPROX)	
EXTINGUISHING MEDIA: Water Spray, foam, dry chemical.	
SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Avoid spraying water directly into storage containers due to danger of boil over. This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: None DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Burning may produce carbon monoxide and dioxide EMPTY CONTAINER: Empty containers may have hazardous residue. Do not cut or weld.	HEALTH 1 FLAMMABILITY 3 REACTIVITY 0 SPECIFIC
	4 = EXTREME 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT

REACTIVITY DATA – SECTION V

STABILITY: Stable

CONDITIONS TO AVOID: Keep away from sources of ignition

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CO, CO₂

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Keep from sources of ignition.

HEALTH HAZARD DATA – SECTION VI

Route(s) of Entry:

Inhalation? Yes

Skin? Yes

Ingestion? Yes

Health Hazards (Acute and Chronic): Irritation of skin and eyes. Inhalation of vapors may cause headache, dizziness or nausea.

CARCINOGENICITY: None

NTP? –

IARC Monographs?

–OSHA? –

MEDICAL CONDITIONS GENERALLY AGGRAVATED by EXPOSURE:

May include skin disorders and respiratory (asthma-like) disorders.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with clear water for 15 minutes or until irritation subsides. If irritation persists, contact a physician.

SKIN CONTACT: Remove contaminated clothing and wash skin thoroughly with soap and water.

INHALATION: Remove person from exposure. If breathing is irregular or has stopped, start resuscitation. Administer oxygen if available.

INGESTION: DO NOT induce vomiting. Call a physician immediately.

PRECAUTIONS FOR SAFE HANDLING AND USE – SECTION VII

Steps to be taken in case material is released or spilled: Collect with inert material. Ventilate area. Remove all sources of ignition, heat or flame!

Waste Disposal Method: In accordance with Local, State and Federal regulations.

Precautions to be taken in handling and storing:

CONTROL MEASURES – SECTION VIII

Respiratory or breathing apparatus: In confined spaces: A chemical cartridge respirator with organic vapor cartridge is required. A dust/mist cartridge or prefilter may be needed in addition to control exposure to mist. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

Ventilation:

Local Exhaust: Should be use in confined areas.

Special:

Mechanical:

Other:

Protective Gloves: Use chemical resistant gloves.

Eye Protection: Safety glasses.

Other Protective Clothing or Equipment: Use chemical resistant aprons or overalls to prevent contamination of clothing.

TRANSPORTATION INFORMATION

UN1263, PAINT RELATED MATERIAL, 3, PG:II (Labels: FLAMMABLE)