

SAFETY DATA SHEET

10-2011, 89020326 - ACDelco Silicone Sealant



Date Prepared : 04/15/2015
 SDS No : 0015-04-2015L 89020326

ACDelco Engine Sealant

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ACDelco Engine Sealant
PRODUCT DESCRIPTION: Engine Sealant
PRODUCT CODE: 89020326

DISTRIBUTOR

ThreeBond International, Inc.
 6184 Schumacher Park Drive
 West Chester, OH 45069
Emergency Phone: (513) 779-7300

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Domestic North America):(800) 424 - 9300
CHEMTREC (International):(703) 527 - 3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Sensitization, Category 1B
 Serious eye damage/Eye irritation, Category 1
 Specific target organ toxicity after repeated exposure: (Hematopoietic System), Category 2

Environmental:

Acute Hazards to the Aquatic Environment, Category 1
 Chronic Hazards to the Aquatic Environment, Category 1

GHS LABEL



Exclamation
mark



Corrosion



Health
hazard



Environment

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H317: May cause an allergic skin reaction.
 H410: Very toxic to aquatic life with long lasting effects.
 H373: May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
 H318: Causes serious eye damage.

Precautionary statement(s)

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P273: Avoid release to the environment.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P321: Specific treatment (see First Aid on this label).

P362+P364: Take off contaminated clothing and wash it before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/Doctor/Medical Professional

P314: Get medical advice/attention if you feel unwell.

P391: Collect spillage.

Disposal:

P501: Dispose of contents/container to appropriate waste facility according to local regulations

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Red paste

IMMEDIATE CONCERNS: Causes irritation or damage to eyes

POTENTIAL HEALTH EFFECTS

EYES: Direct contact may cause slight irritation with redness and swelling.

SKIN: Repeated or prolonged contact with skin may cause slight irritation leading to dermatitis. Product contains oximes which are possible skin sensitizers.

SKIN ABSORPTION: Remove product from skin.

INGESTION: Small amounts should not cause injury. Swallowing large amounts may cause slight injury.

CARCINOGENICITY: Suspected of causing cancer. [MEKO]. The following material (Crystalline silica, Titanium dioxide) is **embedded (bound)** in the product and not available as respiratory dusts. When used as intended or as supplied, the product will not pose hazards.

ROUTES OF ENTRY: Eyes, skin, inhalation, ingestion or absorption

SENSITIZATION: Sensitization possible through skin contact.

HEALTH HAZARDS: Coughing. Dermatitis. Rash. Upper respiratory tract irritation. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause an allergic skin reaction.

COMMENTS: Methyl ethyl ketoxime (MEKO) is formed upon contact with water or humid air. Male rodents exposed to MEKO vapor throughout their lifetime developed liver cancer. But relevance to humans is uncertain now.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Zinc oxide	20 - 30	1314-13-2
Silane, dichloromethyl-,reaction products with silica	10 - 20	68611-44-9
2-Butanone, O, O', O''-(ethenylsilyldiyl) trioxime	5 - 10	2224-33-1
Iron oxide	1 - 3	
Methyl ethyl ketoxime (Impurity)	< 1	96-29-7

COMMENTS: Methyl ethyl ketoxime (MEKO #96-29-7): a decomposition product

4. FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes.

SKIN: Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation or ill effects develop.

INGESTION: Immediately rinse mouth well with water and seek medical treatment.

INHALATION: Remove to fresh air. Get medical attention if ill effects occur.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes serious eye damage.

SKIN: May cause an allergic skin reaction.

INGESTION: Expected to be a low ingestion hazard.

INHALATION: No adverse effects due to inhalation are expected.

ACUTE TOXICITY: No data as a product

CHRONIC EFFECTS: Oximes may cause skin sensitization. Overexposure to vapors may cause drowsiness, blood and liver injury, and may irritate eyes, nose, and throat.

NOTES TO PHYSICIAN: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

COMMENTS: *After first aid, get appropriate in-plant, paramedic, or community medical support.*

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: By heating and fire, harmful vapors/gases may be formed. Nitrogen oxides. (corrosive)

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical powder, foam or water fog.

OTHER CONSIDERATIONS: By heating and fire, harmful vapors/gases may be formed. Nitrogen oxides. (corrosive)

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

FIRE FIGHTING EQUIPMENT: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode/flame retardant coat/helmet/gloves/rubber boots.

FIRE EXPLOSION: No unusual fire or explosion hazards noted

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: carbon oxides and traces of incompletely burned carbon compounds, metal oxides, silicon dioxide, nitrogen oxides, and formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb with dry sand, soil, sawdust, cloth, etc., then place in a sealable container.

LARGE SPILL: Dike and prevent overflow. Guide to a safe place then dispose properly.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not allow product to flow into rivers or affect the environment

GENERAL PROCEDURES: All ignition sources should be quickly removed (No smoking in the vicinity, prohibit sparks or fire sources)

RELEASE NOTES: Keep spilled material from entering storm drains, sewers, or other environmental mediums.

SPECIAL PROTECTIVE EQUIPMENT: Wear appropriate personal protection equipment to avoid contact to eyes, skin, and inhalation.

COMMENTS: Disposal of clean-up materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Take precaution against fire.

HANDLING: Avoid contact with eyes and skin. Wear appropriate personal protection. Wash thoroughly after handling. Avoid prolonged exposure.

STORAGE: Keep container closed and away from water or moisture

STORAGE TEMPERATURE: Minimum to 30°C Maximum

COMMENTS: Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Do not mix this product with other cleaning agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Zinc oxide	TWA		15		10 mg/m ³ (total dust)
Silane, dichloromethyl-,reaction products with silica	TWA		mg/m ³ (total dust)		mg/m ³
	STEL	Not Established		Not Established	
2-Butanone, O, O', O''-(ethenylsilylidyne) trioxime	TWA	[1]	[1]		
OSHA TABLE COMMENTS:					
1. See: Methyl Ethyl Ketoxime (MEKO) data.					

ENGINEERING CONTROLS: Provide general or local ventilation systems to maintain airborne concentrations below OSHA PELs. Local ventilation is preferred because contaminant dispersion into the work area by controlling it at its source.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses. Wear splash goggles if the potential for splashing or spraying exists.

SKIN: Wear personal protection aprons, boots, Gloves (impervious) if necessary. Do not work with short sleeve shirts.

RESPIRATORY: Respiration protection must be worn whenever the WEL levels have been exceeded. Use filter type A according to EN 14387.

PROTECTIVE CLOTHING: Wear solvent resistant or other impervious gloves

WORK HYGIENIC PRACTICES: Wash hands before eating, smoking, or using restroom. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Paste

ODOR: Oxime

APPEARANCE: Red paste

COLOR: Red

pH: Not Available

PERCENT VOLATILE: Not Applicable

FLASHPOINT AND METHOD: > 40°C (104°F) Closed Cup

Notes: Does not sustain combustion.

AUTOIGNITION TEMPERATURE: Not determined.

VAPOR PRESSURE: Negligible (25° C)

VAPOR DENSITY: > 1 (Air = 1)

BOILING POINT: Not Applicable

FREEZING POINT: Not Applicable

MELTING POINT: Not Applicable

SOLUBILITY IN WATER: Not soluble

EVAPORATION RATE: less than 1 (Butyl acetate=1)

DENSITY: Relative Density (at 23 deg C): 1.4

SPECIFIC GRAVITY: at 4°C

VISCOSITY #1: to 104 Pa·s at 23°C

(VOC): < 2.500 % EPA Method 24, Weight Loss Determination

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Polymerization will not occur

STABILITY: Stable at room temperature in closed containers under normal storage and handling conditions.

CONDITIONS TO AVOID: None known.

POSSIBILITY OF HAZARDOUS REACTIONS: Contact with water, moisture, or humid air causes curing and MEKO vapors to form gradually.

HAZARDOUS DECOMPOSITION PRODUCTS: This product reacts with water, moisture or humid air to evolve following compounds: Acetone

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicone dioxide. Nitrogen oxides. Formaldehyde.

INCOMPATIBLE MATERIALS: Strong oxidizing agents. Water, moisture

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 1000 mg/kg (MEKO) rabbit male and female

ORAL LD₅₀: > 900 ml/kg (rat) (MEKO Decomposition product)

INHALATION LC₅₀: > 4.83 mg/l (rat)(MEKO decomposition product)

EYE EFFECTS: May cause serious damage to eyes.

SKIN EFFECTS: Exposure to the product causes irritation to the skin with redness, pain and dryness..

CHRONIC: No data as a product

CARCINOGENICITY

IARC: Monographs

Iron oxide 3 Not classifiable as a carcinogenicity to humans

OSHA: Not Listed

SENSITIZATION: May cause an allergic skin reaction.

REPRODUCTIVE EFFECTS: Not available

TARGET ORGANS: May cause damage to the following organs through prolonged or repeated exposure:

Cardiovascular/Hematological: hematopoiesis. 2-Butanone, O, O',O''-(ethenylsilyldyne) trioxime

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No information available

ECOTOXICOLOGICAL INFORMATION: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. [Zinc compounds]

Harmful to aquatic life [Methylethylketoxime]

BIOACCUMULATION/ACCUMULATION: No information available

AQUATIC TOXICITY (ACUTE): Zinc oxide (CAS 1314-13-2)

96-HOUR LC₅₀: > 1000 Water flea (Daphnia magna)

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your licensed waste contractor for detailed recommendations.

PRODUCT DISPOSAL: This product is a non-hazardous substance per DOT and EPA

EMPTY CONTAINER: All containers should be thoroughly emptied before disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Environmental hazardous substance, solids, n.o.s. (Zinc oxide)

PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: UN3077

PACKING GROUP: III

MARINE POLLUTANT #1: P

OTHER SHIPPING INFORMATION: This product is not intended to be transported in bulk.

AIR (ICAO/IATA)

SHIPPING NAME: Environmental hazardous substance, solids, n.o.s. (Zinc oxide)

UN/NA NUMBER: UN3077

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III**ERG:** 9L**NOTE:** Follows ICAO/IATA regulation**VESSEL (IMO/IMDG)****SHIPPING NAME:** Enviromental hazardous substance, solids, n.o.s. (Zinc oxide)**UN/NA NUMBER:** UN3077**PRIMARY HAZARD CLASS/DIVISION:** 9**PACKING GROUP:** III**EmS:** F-A, S-F**MARINE POLLUTANT #1:** P**15. REGULATORY INFORMATION****UNITED STATES****TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA REGULATORY:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.**TSCA STATUS:** All ingredients are in compliance with the TSCA**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)****29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** Not Listed**STATES WITH SPECIAL REQUIREMENTS**

Chemical Name	Requirements
Zinc oxide	This product contains a component or components listed on the Massachusetts Right to Know list of hazardous substances. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances.

16. OTHER INFORMATION**Date Prepared:** 04/15/2015**HMIS RATING**

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		C

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