



# SAFETY DATA SHEET

Armor Auto LLC  
P.O. Box 3974  
Missoula, MT59806

Emergency Telephone Number: 800-535-5053  
Information Telephone Number: 800-433-6903  
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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** ArmorCoat Reducer

### Other means of identification

**SDS #** 911-629

**Synonyms** 12470-0A 970309

### Recommended use of the chemical and restrictions on use

**Recommended Use** Solvent.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Armor Auto LLC  
P.O. Box 3974  
Missoula, MT 59806

### Emergency telephone number

**Company Phone Number** 1-800-433-6903  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

### Classification

Serious eye damage/eye irritation	Category 2B
Flammable liquids	Category 3

### Signal word

**Warning**

### **Hazard statements**

Causes eye irritation  
Flammable liquid and vapor

**Appearance** Clear liquid**Physical state** liquid**Odor** Ester Pungent**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
 Wash face, hands and any exposed skin thoroughly after handling  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

May be harmful if inhaled  
 May be harmful if swallowed  
 Causes mild skin irritation

**Other Information**

- Harmful to aquatic life
- May form explosive peroxides

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** 12470-0A 970309.

Chemical Name	CAS No	Weight-%	Trade Secret
Ethyl 3-ethoxypropionate	763-69-9	100	*

### 4. FIRST AID MEASURES

**First aid measures****Inhalation**

Remove to fresh air. Get medical attention if symptoms persist.

**Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops or persists.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause irritation to the mucous membranes and upper respiratory tract. May cause drowsiness or dizziness. Causes eye irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. Use water spray to cool fire-exposed containers.

**Unsuitable Extinguishing Media** Not determined.

**Specific hazards arising from the chemical**

Material will float and may ignite on surface of water. Forms peroxides of unknown stability if material becomes uninhibited.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

**Sensitivity to Static Discharge** Take precautionary measures against static discharge.

**Protective equipment and precautions for firefighters**

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

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required.

**Methods and material for containment and cleaning up**

**Methods for containment** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Collect using an inert absorbent material and place in appropriate containers for disposal. For large spills: Flush spill area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

**Methods for cleaning up** Keep in suitable, closed containers for disposal. Dispose of contents/container to an approved waste disposal plant.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash face, hands and any exposed skin thoroughly after handling. Wear appropriate personal protective equipment. Ground container and transfer equipment to eliminate static electric sparks. Use spark-proof tools and explosion-proof equipment.

#### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Protect from sunlight. Minimize exposure to air. Do not distill to dryness. Periodically test for peroxide formation on long-term storage. If peroxide formation is suspected, do not open or move container. After opening, purge container with nitrogen before re-closing. Do not allow to evaporate to near dryness. Keep inhibited.

**Incompatible materials** OXIDIZERS.

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

**Exposure Guidelines** Time weighted average (TWA): 50 ppm  
Short term exposure limit (STEL): 100 ppm

#### **Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Eyewash stations.

#### **Individual protection measures, such as personal protective equipment**

**Eye/face protection** Avoid contact with eyes.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air-purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

#### **Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	Ester Pungent
<b>Appearance</b>	Clear liquid	<b>Odor threshold</b>	0.02 ppm
<b>Color</b>	Colorless		
<b>Property</b>	<b>Values</b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	not applicable		
<b>Melting point/freezing point</b>	< -50 °C		
<b>Boiling point/boiling range</b>	165 °C		
<b>Flash point</b>	59 °C	Setaflash CC (closed cup)	

<b>Evaporation rate</b>	0.12	(butyl acetate = 1)
<b>Flammability (solid, gas)</b>	not applicable	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limits</b>	Not determined	
<b>Lower flammability limit</b>	Not determined	
<b>Vapor pressure</b>	2.0	
<b>Vapor density</b>	5.0	
<b>Specific Gravity</b>	0.95	@ 20°C
<b>Water solubility</b>	29 g/l	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition coefficient</b>	P: 22.4; log P: 1.35	
<b>Autoignition temperature</b>	(ASTM E659) 377 °C	
<b>Decomposition temperature</b>	(HPDTA) No exotherm to 400 C	
<b>Kinematic viscosity</b>	1.20 mPa.s	
<b>Dynamic viscosity</b>	Not determined	
<b>Explosive properties</b>	Not determined	
<b>Oxidizing properties</b>	Not determined	

**Other Information****10. STABILITY AND REACTIVITY****Reactivity**

Not reactive under normal conditions

**Chemical stability**

Stable. Forms peroxides of unknown stability if material becomes uninhibited.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

OXIDIZERS.

**Hazardous Decomposition Products**

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	May be harmful if inhaled.
<b>Eye contact</b>	Causes eye irritation.
<b>Skin Contact</b>	Causes mild skin irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl 3-ethoxypropionate 763-69-9	= 3200 mg/kg ( Rat )	= 10 mL/kg ( Rabbit )	-

**Information on physical, chemical and toxicological effects**

**Symptoms** May cause respiratory irritation. May cause drowsiness or dizziness.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Not classifiable as a human carcinogen.

**Numerical measures of toxicity- Product**

Additional toxicity data may be available on request

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl 3-ethoxypropionate 763-69-9		62: 96 h Pimephales promelas mg/L LC50 static		970: 48 h Daphnia magna mg/L EC50

**Persistence and degradability**

READILY BIODEGRADABLE.

**Bioaccumulation**

This material is not expected to significantly bioaccumulate.

**Mobility**

Not determined.

Chemical Name	Partition coefficient
Ethyl 3-ethoxypropionate 763-69-9	1.35

**Other adverse effects** Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

**Note** For DOT air, vessel and bulk shipments, please refer to international shipping information. DOT info listed below is per 49 CFR 150.173(F)

**DOT** Not regulated

**IATA**

<b>UN/ID No</b>	UN3272
<b>Proper shipping name</b>	Esters, n.o.s. (ethyl 3-ethoxypropionate)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III

**IMDG**

<b>UN/ID No</b>	UN3272
<b>Proper shipping name</b>	Esters, n.o.s. (ethyl 3-ethoxypropionate)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

<b>TSCA</b>	Listed
<b>DSL</b>	Listed
<b>EINECS</b>	Listed EINECS number: 212112-9
<b>IECSC</b>	Listed
<b>PICCS</b>	Listed
<b>AICS</b>	Listed

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*  
*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*  
*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*  
*ENCS - Japan Existing and New Chemical Substances*  
*IECSC - China Inventory of Existing Chemical Substances*  
*KECL - Korean Existing and Evaluated Chemical Substances*  
*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations****SARA 311/312 Hazard Categories****US State Regulations****U.S. State Right-to-Know Regulations****U.S. EPA Label Information**

<b>16. OTHER INFORMATION</b>
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**NFPA****Health hazards****Flammability****Instability****Special Hazards**

Not determined

Not determined

Not determined

Not determined

**HMIS****Health hazards****Flammability****Physical hazards****Personal protection**

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Not determined

**Issue Date**

06-Oct-2009

**Revision Date**

17-Dec-2012

**Revision Note**

new format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**