

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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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 CO2, 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 ContactWash 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

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). 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 (CO2). 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 precautionsUse 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 GuidelinesTime 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

Physical stateliquidAppearanceClear liquidOdorEster PungentColorColorlessOdor threshold0.02 ppm

Property Values Remarks • Method

pH not applicable

Melting point/freezing point < -50 °C

Boiling point/boiling range 165 °C

Flash point 59 °C Setaflash CC (closed cup)

@ 20°C

Evaporation rate 0.12 (butyl acetate = 1)

Flammability (solid, gas) not applicable

Flammability Limits in Air

Upper flammability limits Not determined Lower flammability limit Not determined

Vapor pressure 2.0 Vapor density 5.0

Specific Gravity 0.95 Water solubility 29 g/l

Solubility in other solvents
Partition coefficient
Autoignition temperature

Not determined
P: 22.4; log P: 1.35
(ASTM E659) 377 °C

Decomposition temperature (HPDTA) No exotherm to 400 C

Kinematic viscosity

Dynamic viscosity

Explosive properties

Oxidizing properties

1.20 mPa.s

Not determined

Not determined

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 (CO2). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May be harmful if inhaled.

Eye contact Causes eye irritation.

Skin Contact Causes mild skin irritation.

Ingestion May be harmful if swallowed.

Component Information

| Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------|--------------------|-----------------|
| = 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 | 1.35 |
| 763-69-9 | |

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

UN/ID No UN3272

Proper shipping name Esters, n.o.s. (ethyl 3-ethoxypropionate)

Hazard Class 3
Packing Group III

IMDG

UN3272

Proper shipping name Esters, n.o.s. (ethyl 3-ethoxypropionate)

Hazard Class 3
Packing Group III

15. REGULATORY INFORMATION

International Inventories

TSCA Listed
DSL Listed

EINECS Listed EINECS number: 212112-9

IECSC Listed
PICCS Listed
AICS 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

16. OTHER INFORMATION

 NFPA
 Health hazards
 Flammability
 Instability
 Special Hazards

 Not determined
 Not determined
 Not determined

 HMIS
 Health hazards
 Flammability
 Physical hazards
 Personal protection

 1
 2
 1
 Not determined

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Revision Note new format

Disclaimer

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End of Safety Data Sheet
