

SAFETY DATA SHEET

WORKING COPY



Date Issued : 09/12/2018

SDS No : 70-0149

ARROPOL 36**1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** ARROPOL 36**GENERAL USE:** Research and Development Sample
For Industrial use only**CHEMICAL FAMILY:** Aromatic Polyester Polyol**GENERIC NAME:** Polyester Polyol**MANUFACTURER**ArrowStar, LLC
1815 S. Hamilton St.
P.O. Box 2686
Dalton, GA 30720**Emergency Contact:** CHEMTREC**Emergency Phone:** 800-424-9300**Customer Service:** (706) 277-2981**E-Mail:** lab@star-na.com**24 HR. EMERGENCY TELEPHONE NUMBERS**

CHEMTREC Day or Night 800-424-9300

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATIONS****Health:**Acute Toxicity (Oral), Category 4
Specific Target Organ Toxicity, Category 2
Reproductive Toxicity, Category 2
Eye Irritation, Category 2B**Environmental:**

Hazardous to the Aquatic Environment, Category 4

GHS LABEL

Health, Environmental

Exclamation
markHealth
hazard**SIGNAL WORD:** WARNING**HAZARD STATEMENTS**

H302: Harmful if swallowed.

H373: H371-1: May cause damage to organs (Kidney) through prolonged or repeated exposure.

H335: May cause respiratory irritation.

H361: H361: Suspected of damaging fertility or the unborn child.

H320: Causes eye irritation.

H413: May cause long lasting harmful effects to aquatic life.

PRECAUTIONARY STATEMENTS**Prevention:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

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P262: Do not get in eyes, on skin, or on clothing.
 P263: Avoid contact during pregnancy and while nursing.
 P264: Wash hands thoroughly after handling.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P314: Get medical advice/attention if you feel unwell.
 P361+P364: Take off immediately all contaminated clothing and wash it before reuse.
 P308+P313: IF exposed or concerned: Get medical advice/ attention.

Storage:

P233: Keep container tightly closed.
 P232: Protect from moisture.

Disposal:

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
 P502: Refer to manufacturer or supplier for information on recovery or recycling.

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation.

SKIN: Prolonged or repeated contact may cause skin irritation.

INGESTION: Swallowing this product may cause gastrointestinal irritation, diarrhea, nausea and vomiting.

INHALATION: Minimal respiratory tract irritation may occur with exposure to a large amount of material.

CANCER STATEMENT: No Carcinogenic substances as defined by IARC, NTP and/or OSHA.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Polyester Polyol	90 - 100	2143494-17-9

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of clean water for an extended time, not less than 15 minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. if eye irritation persist: get medical advice/attention.

SKIN: Wash exposed area with soap and water. Remove contaminated clothing and footwear. Wash clotng before reuse. If irritation should develop, get medical attention.

INGESTION: Rinse mouth with water. DO NOT induce vomiting. Call a physician or poison control center immediately.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Eye irritation.

SKIN: Skin irritation.

INGESTION: Abdominal discomfort.

5. FIRE FIGHTING MEASURES

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Observe good industrial hygiene practices.

STORAGE: Store in original container. Keep container tightly closed when not in use. Must be stored under conditions that prevent contamination with water or absorption of moisture.**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****ENGINEERING CONTROLS:** Local ventilation recommended, mechanical ventilation may be used.**PERSONAL PROTECTIVE EQUIPMENT****EYES AND FACE:** Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.**SKIN:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling this product. Neoprene gloves, butyl-rubber, nitrile rubber, PVC disposable gloves.**RESPIRATORY:** When engineering controls are not adequate, wear a NIOSH/MSHA respirator approved for protection.**PROTECTIVE CLOTHING:** Impervious dermal protection.**WORK HYGIENIC PRACTICES:** Good housekeeping practices should include making sure all containers are kept closed and properly stored.**OTHER USE PRECAUTIONS:** Properly maintain a safety shower and an eyewash facility in the work area.**9. PHYSICAL AND CHEMICAL PROPERTIES****PHYSICAL STATE:** Liquid**ODOR:** Mild.**APPEARANCE:** Viscous Liquid.**COLOR:** Dark.

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ARROPOL 36**pH:** No data available.**FLASH POINT AND METHOD:** > 125°C (275°F)**VAPOR PRESSURE:** No data available.**VAPOR DENSITY:** No data available.**BOILING POINT:** > 230°C (446°F)**FREEZING POINT:** No data available.**MELTING POINT:** No data available.**SOLUBILITY IN WATER:** Partially Soluble.**EVAPORATION RATE:** No data available.**DENSITY:** 10.2 - 10.4 (lb/U. S. gal)**SPECIFIC GRAVITY:** 1.223 to 1.247**VISCOSITY #1:** 2500 to 5000 Centipoise at 25°C (77°F)**10. STABILITY AND REACTIVITY****REACTIVITY:** Stable**HAZARDOUS POLYMERIZATION:** Will not occur.**STABILITY:** Stable under normal conditions of use and storage.**INCOMPATIBLE MATERIALS:** Strong Oxidizing Agents.**11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY****NOTES:** No information available.**SKIN CORROSION/IRRITATION:** Contact with this product can be irritating to exposed skin.**SERIOUS EYE DAMAGE/IRRITATION:** Contact with this product can be irritating to exposed eyes.**RESPIRATORY OR SKIN SENSITISATION:** Contact with this product can be irritating to exposed respiratory system. This product is not considered a skin sensitizer.**GERM CELL MUTAGENICITY:** No data available.**CARCINOGENICITY****IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.**NOTES:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.**REPRODUCTIVE TOXICITY:** Based on animal studies, ingestion of very large amounts of ethylene glycol appears to be the major and possibly only route of exposure to produce birth defects. Exposures by inhalation or skin contact, the primary routes of occupational exposure, had minimal effect on the fetus, in animal studies.

Ingestion of large amounts of ethylene glycol has been shown to interfere with reproduction in animals.

STOT-SINGLE EXPOSURE: Kidney.

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ARROPOL 36**STOT-REPEATED EXPOSURE:** Kidney.**ASPIRATION HAZARD:** Based on physical properties, not likely to be an aspiration hazard.**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** No data available.**ECOTOXICOLOGICAL INFORMATION:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.**BIOACCUMULATION/ACCUMULATION:** No data available.**AQUATIC TOXICITY (ACUTE):** No data available.**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with applicable law and regulations.**PRODUCT DISPOSAL:** Product should be disposed of in accordance with all federal, state, and local regulations.**EMPTY CONTAINER:** Follow all SDS/label precautions even after container is emptied because it may retain product residues.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Not Dangerous Goods.**ROAD AND RAIL (ADR/RID)****PROPER SHIPPING NAME:** Not Dangerous Goods.**VESSEL (IMO/IMDG)****SHIPPING NAME:** Not Dangerous Goods.**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** Reproductive Toxicity, Target Organ Toxicity (Repeated exposure)**311/312 PHYSICAL HAZARDS:** None known.**302/304 EMERGENCY PLANNING****EMERGENCY PLAN:** Not yet Known**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA REGULATORY:** Not yet Known**EPA****EPA RQ INGREDIENT:** Not yet Known**EPA RQ PRODUCT:** Not yet Known**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA REGULATORY:** Not yet Known**TSCA STATUS:** Not yet Known**CLEAN AIR ACT****40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION:** Not yet Known

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CLEAN AIR ACT (HAZARDOUS AIR POLLUTANTS): Not yet Known

CALIFORNIA PROPOSITION 65: Not yet Known

OSHA HAZARD COMM. RULE: Not yet Known

CLEAN WATER ACT: Not yet Known

CARCINOGEN: None of the ingredients are listed.

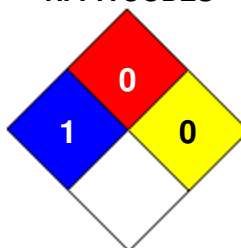
16. OTHER INFORMATION

Date Prepared: 09/12/2018

HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	X

NFPA CODES



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