



For a Better Tomorrow
AISIN GROUP

SAFETY DATA SHEET

Date Prepared : 11/05/2012
SDS No : 0005-11-2012 (JPN)
Date-Revised : 06/02/2017
Revision No : 12

Aisin AB1184

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Aisin AB1184A
PRODUCT DESCRIPTION: Semi-Drying Liquid Gasket
PRODUCT CODE: Aisin AB1184A

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:

Acute Toxicity (Dermal), Category 4
Acute toxicity (Inhalation: Vapors), Category 4
Skin corrosion/irritation, Category 2
Serious eye damage/Eye irritation, Category 2A
Carcinogenicity, Category 2
Reproductive Toxicity, Category 1B
Specific target organ toxicity after single exposure: Blood, Category 2
Aspiration toxicity, Category 1
Acute toxicity (Inhalation: Dusts/Mists), Category 4
Specific target organ toxicity after repeated exposure: (Central Nervous system, Respiratory system, kidney, liver), Category 1
Specific target organ toxicity after single exposure: (Respiratory irritation), Category 3
Specific target organ toxicity after repeated exposure: (Respiratory system, nervous system), Category 1

Environmental:

Acute Hazards to the Aquatic Environment, Category 2
Chronic Hazards to the Aquatic Environment, Category 2

Physical:

Flammable Liquids, Category 3

GHS LABEL



Flame



Exclamation mark



Health hazard



Environment

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H226: Flammable liquid and vapor.
H312: Harmful in contact with skin.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

- H360: May damage fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H370: Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H372: Causes 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).
- H351: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H411: 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).
- H371: May cause damage to organs (or state all organs affected, if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Precautionary statement(s)

Prevention:

- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P261: Avoid breathing dust/fume/gas/mist/vapors /spray.
- P271: Use only outdoors or in a well-ventilated area.
- P264: Wash ... thoroughly after handling.
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P360: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
- P270: Do not eat, drink or smoke when using this product.
- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P240: Ground and bond container and receiving equipment.
- P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
- P242: Use non-sparking tools.
- P243: Take action to prevent static discharges.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P302+P352: IF ON SKIN: Wash with plenty of water/...
- P312: Call a POISON CENTER/doctor/...if you feel unwell.
- P321: Specific treatment (see ... on this label).
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313: IF exposed or concerned: Get medical advice/ attention.
- P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor/...
- P314: Get medical advice/attention if you feel unwell.
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P391: Collect spillage.
- P302+P335+P334: IF ON SKIN: Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- P331: Do NOT induce vomiting.

Storage:

- P403+P235: Store in a well-ventilated place. Keep cool.
- P370+P378: In case of fire: Use ... to extinguish.
- P405: Store locked up.

Disposal:

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P501: Dispose of contents/container to ...

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Gray liquid

IMMEDIATE CONCERNS: May cause irritation to the eyes, skin, and respiratory tract.

POTENTIAL HEALTH AFFECTS

EYES: May cause eye irritation

SKIN: May cause skin irritation

SKIN ABSORPTION: May be harmful if absorbed through the skin

INGESTION: May be harmful if swallowed; Ingestion is an unlikely route of entry in industrial uses

INHALATION: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Chlorosulfonated polyethylene, Inorganic filler	50 - 60	
Xylene	15 - 25	1330-20-7
Ethyl benzene	15 - 25	100-41-4
2-Butoxyethanol	1 - 5	111-76-2
1,1,2-Trichloroethane	0.1 - 1	79-00-5
2,6-Di-tertiarybutyl- 4-cresol	0.1 - 1	128-37-0
1-methyl-2-pyrrolidinone	< 1	872-50-4
Bisphenol A/Epichlorohydrin epoxy polymer	0.1 - 1	25068-38-6

4. FIRST AID MEASURES

EYES: In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

SKIN: Wash with soap and water.

INGESTION: Rinse mouth. Get medical attention

INHALATION: Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE EFFECTS: No data as a product

CHRONIC EFFECTS: No data as a product

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

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Highly Flammable liquid and vapor

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.

GENERAL HAZARD: Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors explosion hazard indoors, outdoors or in sewers. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard. Substances may be transported hot.

EXTINGUISHING MEDIA: Dry Chemical, CO₂, water spray or regular foam. Water sprays fog or regular foam. Use water spray or fog; do not use straight streams. .

HAZARDOUS COMBUSTION PRODUCTS: May produce poisonous and irritated gases upon a fire

FIRE FIGHTING PROCEDURES: Workers should wear appropriate protection (glasses, clothes, mask for poisonous gasses, etc.), then

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Extinguishing should be performed up wind.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Then extinguish should be performed up wind.

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: Fire strictly prohibited. Wear appropriate personal protection equipment. Wash thoroughly after handling.

STORAGE: Store in well-ventilated place. Keep container tightly sealed. Store locked up.

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				
Chemical Name	Type		ppm	mg/m ³
Xylene	OSHA PEL	TWA	100 ppm	
	ACGIH TLV	TWA	100 ppm	
Ethyl benzene	OSHA PEL	TWA	100 ppm	435
	ACGIH TLV	TWA	(100) ppm	(434)
		STEL		125
1,1,2-Trichloroethane	OSHA PEL	TWA	10	45
	ACGIH TLV	TWA	10 ^[1]	[1]
		STEL		25

OSHA TABLE COMMENTS:

1. S = Skin

ENGINEERING CONTROLS: Install local ventilation or seal sources of substances. Install safety shower, hand wash, and eye wash station. Clearly indicate location of wash station.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses or goggles with side shields (preferably goggles).

SKIN: Gloves (impervious).

RESPIRATORY: In case of insufficient ventilation, wear NIOSH approved respiratory equipment when exposure limits are exceeded.

PROTECTIVE CLOTHING: Wear chemically impervious clothing, gloves, boots, aprons and gauntlets to prevent prolonged or repeated

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skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).

Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

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: Liquid

ODOR: Solvent

ODOR THRESHOLD: No information available

APPEARANCE: Liquid

COLOR: Gray

pH: No information available

FLASHPOINT AND METHOD: 28°C

FLAMMABLE LIMITS: No information available

AUTOIGNITION TEMPERATURE: No information available

VAPOR PRESSURE: No information available

VAPOR DENSITY: No information available

BOILING POINT: No information available

FREEZING POINT: No information available

MELTING POINT: No information available

THERMAL DECOMPOSITION: No information available

SOLUBILITY IN WATER: No information available

PARTITION COEFFICIENT: N-OCTANOL/WATER: No information available

EVAPORATION RATE: No information available

DENSITY: No information available

SPECIFIC GRAVITY: 1.26

VISCOSITY #1: 9.5 Pa·s Dynamic

10. STABILITY AND REACTIVITY

REACTIVITY: No information available

STABILITY: Stable under normal handling

CONDITIONS TO AVOID: Heat

POSSIBILITY OF HAZARDOUS REACTIONS: Reacts to strong oxidizers, then may cause a fire hazard.

HAZARDOUS DECOMPOSITION PRODUCTS: May generate harmful gas by incineration.

INCOMPATIBLE MATERIALS: Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

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Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Xylene	3500 mg/kg (rat)	> 1700 Rabbit/mg/kg	5000 ppm (Rat)
Ethyl benzene	3500 mg/kg (rat)	15400 Rabbit/mg/kg	17.2 mg/L, 4 hrs (Rat)
1,1,2-Trichloroethane	836 mg/kg (rat)	5371 Rabbit/mg/kg	2.78 mg/L, 4 hrs (Rat)
2,6-Di-tertiarybutyl-4-cresol	890 mg/kg (rat)	> 2000 (rat) mg/kg	
1-methyl-2-pyrrolidinone	3914	8.0 g/kg (Rabbit)	> 5100
Bisphenol A/Epichlorohydrin epoxy polymer	11400 mg/kg (rat)		

NOTES: No data as a product

SKIN CORROSION/IRRITATION: No data available as this product

SERIOUS EYE DAMAGE/IRRITATION: No data available as this product

RESPIRATORY OR SKIN SENSITISATION: No data available as this product

GERM CELL MUTAGENICITY: No data available as this product

CARCINOGENICITY

Chemical Name	IARC Status	Other
Xylene	3	ACGIH: A3
Ethyl benzene	2B	ACGIH: A3
2-Butoxyethanol	3	
1,1,2-Trichloroethane	3	ACGIH: A4 EPA: C
2,6-Di-tertiarybutyl-4-cresol	3	

IARC: Not Listed

NTP: Not listed

OSHA: Not Listed

NOTES: No data available as this product.

REPRODUCTIVE TOXICITY: No data as a product

STOT-SINGLE EXPOSURE: No data available as this product

STOT-REPEATED EXPOSURE: No data available as this product

ASPIRATION HAZARD: No data available as this product

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data as a product

ECOTOXICOLOGICAL INFORMATION: No data as a product

BIOACCUMULATION/ACCUMULATION: No data as a product

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.

FOR LARGE SPILLS: Take precaution to prevent product to flow into rivers and effect environment.

PRODUCT DISPOSAL: To dispose of this product, solicit waste disposal management experts. **DO NOT** dispose the waste liquid containing the product into a river.

14. TRANSPORT INFORMATION

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DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Adhesive, containing flammable liquid (Ethyl Benzene, Xylene)

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1133

PACKING GROUP: III

AIR (ICAO/IATA)

SHIPPING NAME: Adhesive, containing flammable liquid (Ethyl Benzene, Xylene)

UN/NA NUMBER: UN1133

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Adhesive, containing flammable liquid (Ethyl Benzene, Xylene)

UN/NA NUMBER: UN1133

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

EmS: F-E, S-D

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Ethyl benzene	15 - 25	100-41-4

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt. %	CERCLA RQ
Ethyl benzene	15 - 25	1,000
1,1,2-Trichloroethane	0.1 - 1	100

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Xylene	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 Michigan Critical Materials list. This product contains a component or components listed on the New Jersey Right to Know list of hazardous chemicals. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances.
Ethyl benzene	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 New Jersey Right to Know list of hazardous chemicals. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances.
1,1,2-Trichloroethane	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 Michigan Critical Materials list. This product contains a component or components listed on the New Jersey Right to Know list of hazardous chemicals. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances.
1-methyl-2-pyrrolidinone	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 New Jersey Right to Know list of hazardous chemicals. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances.

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Chemical Name	Wt. %	Listed
Ethyl benzene	15 - 25	Cancer
1,1,2-Trichloroethane	0.1 - 1	Cancer
1-methyl-2-pyrrolidinone	< 1	Developmental Toxicity

MEXICO This Safety Data Sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000)

16. OTHER INFORMATION

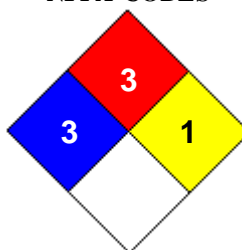
PREPARED BY: L. Jackson **Date-Revised:** 06/02/2017

REVISION SUMMARY: This MSDS replaces the 03/30/2017 MSDS. Revised: **Section 1:** SDS No, PREPARED BY.

HMIS RATING

HEALTH	*	3
FLAMMABILITY		3
PHYSICAL HAZARD		1
PERSONAL PROTECTION		F

NFPA CODES



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herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.