



MATERIAL SAFETY DATA SHEET

ASA WX-9310J

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1. IDENTIFICATION

A. Product name

- ASA WX-9310J

B. Recommended use and restriction on use

- General use : Plastic materials of synthetic resin
- Restriction on use : Do not use without advised use

C. Manufacturer / Supplier / Distributor information

○ Manufacturer/Supplier/Distributor information

- Company name : LOTTE CHEMICAL CORPORATION
- Address : Lotte World Tower, 300, Olympic-ro, Songpa-gu, Seoul, 05551 Rep. of KOREA
- Dept. : Quality Control Team
- Telephone number : Head-Office +82-2-829-4190
: Yeosu Plant +82-61-689-1531
- Fax number : +82-2-834-6070

2. HAZARD IDENTIFICATION

A. GHS Classification

- Not available

B. GHS label elements

- Hazard symbols
 - Not applicable
- Signal words
 - Not applicable
- Hazard statements
 - Not applicable
- Precautionary statements
 - 1) Prevention
 - Not applicable
 - 2) Response
 - Not applicable
 - 3) Storage
 - Not applicable
 - 4) Disposal
 - Not applicable

C. Other hazards which do not result in classification : (NFPA Classification)

- NFPA grade (0 ~ 4 level)
 - Health : 0, Flammability : 0, Reactivity : 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	Content(%)
2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile	-	26299-47-8 / KE-29470	90~99.9
Additive	-	-	0.1~10

* Other ingredients which do not contribute to classification of the product

4. FIRST AID MEASURES

A. Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15minutes and call a doctor/physician.

B. Skin contact

- Flush skin with plenty of wter for at least 15 minutes while removing contaminated clothing and shoes.
- Laundering enough contaminated clothing before reuse.

C. Inhalation contact

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

D. Ingestion contact

- About whether I should induce vomiting Take the advice of a doctor.
- Rinse your mouth with water immediately.

E. Delayed and immediate effects and also chronic effects from short and long term exposure

- Not available

F. Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

5. FIREFIGHTING MEASURES

A. Suitable (Unsuitable) extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing

B. Specific hazards arising from the chemical

- May Ignite by Heat, sparks, flames.
- Easy to burn, but not easy to fire.
- Irritating, or toxic gases may occur by fire.
- Inhalation of materials may be harmful.

C. Special protective actions for firefighters

- Move containers from fire area, if you can do without the risk.
- Using a unattended and water devices in case of large fire and leave alone to burn if you do not imperative.
- Do not access if the tank on fire.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Wear appropriate protective equipment.
- Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures

- Ventilate closed spaces before entering.
- Must work against the wind, let the upwind people to evacuate.

- Do not touch spilled material. Stop leak if you can do it without risk.
- Remove all sources of ignition.

B. Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

C. Methods and materials for containment and cleaning up

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small liquid state spills: Appropriate container for disposal of spilled material collected.
- For disposal of spilled material in appropriate containers collected and clear surface.

7. HANDLING AND STORAGE

A. Precautions for safe handling

- Avoid contact with incompatible materials.
- Comply with all applicable laws and regulations for handling
- Refer to Engineering controls and personal protective equipment.
- Operators should wear antistatic footwear and clothing.

B. Conditions for safe storage, including any incompatibilities

- Do not use damaged containers.
- Do not apply direct heat.
- Avoid direct sunlight.
- Please pay attention to incompatibilities materials and conditions to avoid.
- No open fire.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

- o ACGIH TLV
 - Not available

B. Engineering controls

- A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.
- Follow the appropriate engineering controls because unconfirmed gases for hazard among extrusion process may expose.

C. Personal protective equipment

o **Respiratory protection**

- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Dust, mist, fume-purifying respiratory protection
- Any air-purifying respirator with a corpuscle filter of high efficiency
- Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying)
- Self-contained breathing apparatus with a corpuscle filter of high efficiency
- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

o **Eye protection**

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

o **Hand protection**

- Wear appropriate glove.

- **Skin protection**
 - Wear appropriate clothing.
- **Others**
 - Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance	
- Appearance	Solid(Pellets)
- Color	- (Please Follow the request for clients)
B. Odor	Odourless
C. Odor threshold	Not applicable
D. pH	Not applicable
E. Melting point/Freezing point	Not applicable
F. Initial Boiling Point/Boiling Ranges	Not applicable
G. Flash point	Not available (main substance)
H. Evaporation rate	Not applicable
I. Flammability(solid, gas)	Nonflammability
J. Upper/Lower Flammability or explosive limits	Not applicable
K. Vapour pressure	Not applicable
L. Solubility	Insolubility (solubility in water)
M. Vapour density	Not applicable
N. Specific gravity	1.0 ~ 1.2
O. Partition coefficient of n-octanol/water	Not available
P. Autoignition temperature	Over 400 °C
Q. Decomposition temperature	Not available (main substance)
R. Viscosity	Not applicable
S. Molecular weight	Not available (main substance)

10. STABILITY AND REACTIVITY

A. Chemical stability

- This material is stable under recommended storage and handling conditions.
- This material is stable under conditions at room temperature and normal pressure.

B. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.
- Containers may explode if heated..
- Easy to burn, but not easy to fire.
- Irritating, or toxic gases may occur by fire.
- Inhalation of materials may be harmful.

C. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

D. Incompatible materials

- Combustible materials, irritating, toxic gases

E. Hazardous decomposition products

- Not available

11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

- (Respiratory tracts)
 - Not available

- **(Oral)**
 - Not available
- **(Eye·Skin)**
 - Not available

B. Delayed and immediate effects and also chronic effects from short and long term exposure

- **Acute toxicity**
 - * **Oral**
 - [1,4-Benzenedicarboxylic acid dimethyl ester polymer with 1,4-butanediol] : LD50 > 5000 mg/kg Rat
 - * **Dermal**
 - [1,4-Benzenedicarboxylic acid dimethyl ester polymer with 1,4-butanediol] : LD50 > 2000 mg/kg Rabbit
 - * **Inhalation**
 - Not available
- **Skin corrosion/irritation**
 - Not available
- **Serious eye damage/irritation**
 - Not available
- **Respiratory sensitization**
 - Not available
- **Skin sensitization**
 - Not available
- **Carcinogenicity**
 - * **IARC**
 - Not available
 - * **OSHA**
 - Not available
 - * **ACGIH**
 - Not available
 - * **NTP**
 - Not available
 - * **EU CLP**
 - Not available
- **Germ cell mutagenicity**
 - Not available
- **Reproductive toxicity**
 - Not available
- **STOT-single exposure**
 - Not available
- **STOT-repeated exposure**
 - Not available
- **Aspiration hazard**
 - Not available

12. ECOLOGICAL INFORMATION

A. Ecotoxicity

- **Fish**
 - Not available
- **Crustaceans**
 - Not available
- **Algae**
 - Not available

B. Persistence and degradability

- **Persistence**
 - [1,4-Benzenedicarboxylic acid dimethyl ester polymer with 1,4-butanediol] : (Not applicable)
- **Degradability**
 - Not available

C. Bioaccumulative potential

- **Bioaccumulative potential**
 - Not available
- **Biodegradation**
 - Not available

D. Mobility in soil

- Not available

E. Other adverse effects

- Not available

13. DISPOSAL CONSIDERATIONS**A. Disposal methods**

- Since more than two kinds of designaed waste is mixed, it is difficult to treat seperatly, then can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.

B. Special precautions for disposal

- The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION**A. UN number**

- Not available

B. Proper shipping name

- Not available

C. Hazard class

- Not available

D. Packing group

- Not available

E. Marine pollutant

- Not applicable

F. Special precautions for user related to transport or transportation measures

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE : Not available
- EmS SPILLAGE SCHEDULE : Not available
- ADR/RID : Not regulated as dangerous goods
- IATA : Not regulated as dangerous goods
- IMDG : Not regulated as dangerous goods

15. REGULATORY INFORMATION**A. National and/or international regulatory information**

- **POPs Management Law**
 - Not applicable
- **Information of EU Classification**
 - * **Classification**
 - Not applicable

- * **Risk Phrases**
 - Not applicable
- * **Safety Phrase**
 - Not applicable
- o **U.S. Federal regulations**
 - * **OSHA PROCESS SAFETY (29CFR1910.119)**
 - Not applicable
 - * **CERCLA Section 103 (40CFR302.4)**
 - Not applicable
 - * **EPCRA Section 302 (40CFR355.30)**
 - Not applicable
 - * **EPCRA Section 304 (40CFR355.40)**
 - Not applicable
 - * **EPCRA Section 313 (40CFR372.65)**
 - Not applicable
- o **Rotterdam Convention listed ingredients**
 - Not applicable
- o **Stockholm Convention listed ingredients**
 - Not applicable
- o **Montreal Protocol listed ingredients**
 - Not applicable

16. OTHER INFORMATION

A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.
- ACGIH(American Conference of Governmental Industrial Hygienists)
- CCRIS(Chemical Carcinogenesis Information)
- ChemIDplus(Chemical Identification/Dictionary)
- CICADs(Concise International Chemical Assessment Documents)
- CPDB(Carcinogenic Potency Database)
- CRC Handbook
- CTD(Comparative Toxicogenomics Database)
- ECHA Registered Substance(REACH)
- e-ChemPortal
- Environmental Health Criteria (EHC) Monographs
- ERG(emergency response guidebook)
- ESIS(European chemical Substances Information System)
- Harmonization Project Publications
- HSDB(Hazardous Substances Data Bank)
- International Agency for Research on Cancer (IARC) - Summaries and Evaluations
- International Chemical Safety Cards (ICSCs)
- IPCS INCHEM(International Programme on Chemical Safety)
- IPCS/CEC Evaluation of Antidotes Series
- IRIS(Integrated Risk Information)
- IUCLID(International Uniform Chemical Information Database)
- Joint Expert Committee on Food Additives (JECFA) - Monographs and Evaluations
- NLM(National Library of Medicine)
- NTP(National Toxicity Program)
- Pesticide Documents (PDs)
- Poisons Information Monographs Archive (PIMs, 1989-2002)
- Screening Information Data Set (SIDS) for High Production Volume Chemicals
- The Merck Index 13th Ed.
- UK Poison Information Documents (UKPID)
- UN RTDG
- Globally Harmonized System of Classification and Labeling of Chemicals

- Chemicals Information System (NCIS)
- National Emergency Management Agency / Korea dangerous material inventory management system
- Korea Occupational Safety & Health Agency (KOSHA)

B. Issue date

- 2017-11-15

C. Revision number and Last date revised

- 2020-2-11

D. Other

- This MSDS is prepared according to the Globally Harmonized System (GHS).