

# Material Safety Data Sheet

Revised Date : Oct/01/2015

## AXIA Tape Primer TP 309

### I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	AXIA Tape Primer TP 309	<b>Company Address:</b>
<b>Product Type</b>	Liquid	ALTECO KOREA, INC.
<b>Chemical Name</b>	Chemical mixture	114 Suweolam4gil Seotan-Myeon Pyeongtaek-Si, Gyeonggido, Korea
		<b>Contact Information:</b>
		Telephone: 82-31-663-8150
		Internet: www.axia.co.kr

### II. HAZARDS IDENTIFICATION

Classification of the substance or mixture mixture

Flammable liquids category 2

Acute toxicity (Inhalation) category 4

Skin corrosion/irritation category 2

Eye damage/irritation category 2

Reproductive toxicity category 1

Specific target organ toxicity (single exposure) category 2 (central nervous), 3 (narcosis) Aspiration hazard category 1

Hazardous to the aquatic environment-chronic hazard category 2

GHS labels, including precautionary statements

GHS Symbol



Signal Word

Danger

**Hazard Statement(s)**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

**Precautionary Statement(s)**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P261 Avoid breathing vapours.

P305+P351+P338

If in eyes Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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**III. COMPOSITION/INFORMATION ON INGREDIENTS**

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Ingredients	CAS No.	%
Cyclohexane	110-82-7	30~35
Xylene	1330-20-7	35~40
Ethylbenzene	100-41-4	< 5
Ethyl Acetate	141-78-6	10~15
Acrylate Polymer	Trade Secret	5~10
Chlorinated Polyolefin	68609-36-9	< 5
Epoxy Resin	25068-38-6	1.5~2.0
Toluene	108-88-3	7.5~8.5

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**IV. FIRST AID MEASURES**

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**DESCRIPTION OF FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

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

no data available

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**V. FIRE FIGHTING MEASURES**

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**FLAMMABLE PROPERTIES**

<b>Autoignition temperature</b>	No Data Available
<b>Flash Point</b>	-20 °C [Test Method: Closed Cup]
<b>Flammable Limits(LEL)</b>	1 %
<b>Flammable Limits(UEL)</b>	11 %
<b>OSHA Flammability Classification:</b>	Class IB Flammable Liquid

**EXTINGUISHING MEDIA**

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

**PROTECTION OF FIRE FIGHTERS**

**Special Fire Fighting Procedures:** Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Extremely flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

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**VI. ACCIDENTAL RELEASE MEASURES**

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

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**VII. HANDLING AND STORAGE**

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**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Specific end uses**

no data available

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**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS**

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open containers. Use in an enclosed process area is recommended. Use in a well-ventilated area. Use general dilution ventilation and/or local exhaust ventilation to

control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique. (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection**

Avoid breathing of vapors, mists or spray. Do not breathe vapors.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with

OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges.

Select and use respiratory protection to prevent an inhalation exposure based on the results of an exposure assessment.

Consult with your respirator manufacturer for selection of appropriate types of respirators.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested

and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### EXPOSURE GUIDELINES

Ingredient	Authority	Type	Limit	Additional Information
Cyclohexane	ACGIH	TWA	100 ppm	
Cyclohexane	OSHA	TWA	1050 mg/m3	
Ethyl Acetate	ACGIH	TWA	400 ppm	
Ethyl Acetate	OSHA	TWA	1400 mg/m3	
Ethylbenzene	ACGIH	TWA	20 ppm	
Ethylbenzene	CMRG	TWA	25 ppm	
Ethylbenzene	CMRG	STEL	75 ppm	
Ethylbenzene	OSHA	TWA	435 mg/m3	
Toluene	ACGIH	TWA	20 ppm	
Toluene	CMRG	STEL	75 ppm	Skin Notation*
Toluene	OSHA	TWA	200 ppm	
Toluene	OSHA	CEIL	300 ppm	
Xylene	ACGIH	TWA	100 ppm	
Xylene	ACGIH	STEL	150 ppm	
Xylene	CMRG	TWA	50 ppm	
Xylene	CMRG	STEL	75 ppm	
Xylene	OSHA	TWA	435 mg/m3	

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### IX. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Liquid, Amber colored
Odor	Solvent odor
Odor threshold	No data
pH	No data
Melting point/freezing point	No data
Initial boiling point or boiling range	No data
Flash point	-20°C (C.C)
Evaporation rate	No data
Flammability(solid, gas)	No data
Upper/lower flammability or explosive limits	LEL: 1.1% ,

Vapor pressure	68mmHg @ 20 °C
Solubility	Nigligible
Vapor density	No data
Relative density	0.82 @ 25 °C
Partition coefficient: n-octano/water	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity	15~20 cps @ 20 °C
Molecular weight	No data

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## X. STABILITY AND REACTIVITY

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**Stability:** Stable.

**Materials and Conditions to Avoid:**

**Conditions to avoid**

Heat

Sparks and/or flames

**Materials to avoid**

Strong oxidizing agents

**Hazardous Polymerization:** Hazardous polymerization will not occur.

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## XI. TOXICOLOGICAL INFORMATION

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		Xylene	Cyclohexane	Ethylbenzene	Ethylacetate	Toluene
Oral	LD50 mg/kg, RAT	3500	12075	3500	5620	2600
Dermal	LD50 mg/kg, Rabbit	>4350	> 2000	15400	18000	120000, RAT
Inhalation	LC50 , 4hr, Rabbit	6700 ppm	70 mg/l	400 ppm	100mg/l, RAT	12.5 mg/l, RAT

**Inhalation**

Irritation, low body temperature, tinnitus, nausea, vomiting, stomachache, headache, drowsiness, dizziness, modulation loss, eyesight disturbance, pulmonary congestion, kidney damage, liver damage, coma.

Chronic Effects on Humans: The substance is toxic to blood, kidneys, the nervous system, liver.

**Skin**

Irritating to the skin. Considered to be of low toxicity: acute dermal.

**Eyes**

This product is an irritant to the eyes.

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## XII. ECOLOGICAL INFORMATION

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	Xylene	Cyclohexane	Ethylbenzene	Ethylacetate	Toluene
Fish	LC50 3.3mg/l, 6hr	No data	LC50 9.09mg/l, 96hr	LC50 230mg/l, 96hr, Pimephales promeals	LC50 24mg/l, 96hr, Oncorhynchus mykiss
Crustacea	LC50 190mg/l, 96hr	EC50 0.9mg/l, 48hr	LC50 0.4mg/l, 96hr	EC50 717mg/l, 48hr, Daphnia magna	LC50 11.5mg/l, 48hr, Daphnia magma
Algae	No data	No data	No data	EC50 1800~3200mg/l, 72hr	No data

### XIII. DISPOSAL CONSIDERATIONS

#### U.S. EPA. 40 CFR 262. EPA Hazadous Waste Number (RCRA) : D001.(ignible)

Dispose of as a chemical waste in accordance with current local, state, and federal regulations.

### XIV. TRANSPORT INFORMATION

U.S. DOT. 49 CFR .172.101 :

**ID Number** UN 1993

**Dangerous goods label class** III

### XV. REGULATORY INFORMATION

#### 311/312 Hazard Categories:

Fire Hazard - Yes    Pressure Hazard - No    Reactivity Hazard - No    Immediate Hazard - Yes    Delayed Hazard - Yes

#### Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	% by Wt
Cyclohexane	110-82-7	30 - 35
Xylene	1330-20-7	35 - 40
Ethylbenzene	100-41-4	< 5

#### CALIFORNIA PROPOSITION 65

Ingredient	C.A.S. No.	Classification
Ethylbenzene	100-41-4	**Carcinogen
Toluene	108-88-3	*Developmental Toxin

\* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.

\*\* WARNING: contains a chemical which can cause cancer.

### CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS

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## **XVI. OTHER INFORMATION**

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**Date Prepared**                      March, 2015

**Revision Information**            This document replaces all prior versions of the MSDS

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