



**ARALDITE® PY 306 US**

Version      Revision Date:      SDS Number:  
1.0            06/26/2015            400001007835

P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture            : Substance

**Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol	9003-36-5	>= 60   - <= 100

**SECTION 4. FIRST AID MEASURES**

- General advice                    : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled                         : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact         : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact         : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed                     : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed            : None known.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media    : No data is available on the product itself.
- Unsuitable extinguishing media : High volume water jet

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- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No data is available on the product itself.
- Specific extinguishing methods : No data is available on the product itself.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : 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.

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Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Strong acids  
Strong bases  
Strong oxidizing agents

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters****Personal protective equipment**

## Hand protection

Material : butyl-rubber  
Break through time : > 8 h

Solvent-resistant gloves (butyl-rubber)  
Nitrile rubber  
10 - 480 min

Neoprene gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid  
Color : light yellow  
Odor : slight  
Odor Threshold : No data is available on the product itself.  
pH : No data is available on the product itself.  
Boiling point : > 200 °C  
Flash point : > 150 °C

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Method: Pensky-Martens closed cup, closed cup

Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Upper explosion limit	: No data is available on the product itself.
Lower explosion limit	: No data is available on the product itself.
Vapor pressure	: < 0.00001 hPa (20 °C)
Relative vapor density	: No data is available on the product itself.
Relative density	: ca. 1.17
Density	: ca. 1.18 g/cm <sup>3</sup> (25 °C)
Solubility(ies)	
Water solubility	: practically insoluble (20 °C)
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n-octanol/water	: No data is available on the product itself.
Autoignition temperature	: No data is available on the product itself.
Decomposition temperature	: > 200 °C
Viscosity	
Viscosity, dynamic	: 1,200 - 1,600 mPa.s (25 °C)
Self-Accelerating decomposition temperature (SADT)	: No data is available on the product itself.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Hazardous decomposition products	: Carbon oxides
	Burning produces obnoxious and toxic fumes.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : No data is available on the product itself.

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exposure

**Acute toxicity****Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:

Acute oral toxicityIngredients : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : No data available

**Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

Acute toxicity (other routes of administration) : No data available

**Skin corrosion/irritation****Product:**

Remarks: May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation****Product:**

Remarks: Vapors may cause irritation to the eyes, respiratory system and the skin.

**Respiratory or skin sensitization****Product:**

Remarks: Causes sensitization.

Assessment: No data available

**Germ cell mutagenicity****Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: positive  
GLP: yes

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: positive  
GLP: yes

Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 476  
Result: positive  
GLP: yes

**Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:  
Genotoxicity in vivo

: Cell type: Somatic  
Application Route: Oral  
Exposure time: 48 h  
Dose: 2000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Cell type: Somatic  
Application Route: Oral  
Dose: 2000 mg/kg  
Method: OECD Test Guideline 486  
Result: negative  
GLP: yes

**Carcinogenicity**

No data available

Carcinogenicity - Assessment : No data available

**Reproductive toxicity****Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:  
Effects on fertility

: Species: Rat, male and female  
Application Route: Oral  
Method: OECD Test Guideline 416  
GLP: yes

**Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:  
Effects on fetal development

: Species: Rabbit, female  
Application Route: Dermal  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 30 mg/kg body weight  
Result: No teratogenic effects.  
GLP: yes

Reproductive toxicity - Assessment : No data available

**STOT-single exposure**

No data available

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**STOT-repeated exposure**

No data available

**Repeated dose toxicity****Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:

Species: Rat, male and female

NOAEL (No observed adverse effect level): 250 mg/kg

Application Route: Ingestion

Exposure time: 13 Weeks

Number of exposures: 7 d

Method: Subchronic toxicity

Repeated dose toxicity -            : No data available  
Assessment

**Aspiration toxicity**

No data available

**Experience with human exposure**

General Information:            No data available

Inhalation:                        No data available

Skin contact:                     No data available

Eye contact:                      No data available

Ingestion:                         No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information****Product:**

Remarks: No data available



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Exposure time: 3 h  
 Test Type: static test  
 Test substance: Fresh water  
 GLP: no

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment  
 Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Further information:  
 No data available

**Persistence and degradability****Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:

Biodegradability : Inoculum: activated sludge  
 Concentration: 3 mg/l  
 Result: Not readily biodegradable.  
 Biodegradation: ca. 0 %  
 Exposure time: 28 d  
 Method: Directive 67/548/EEC Annex V, C.4.E.

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical : No data available

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removability

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage Treatment : No data available

**Bioaccumulative potential**

Bioaccumulation : No data available

**Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:

Partition coefficient: n-octanol/water	: log Pow: 2.7 - 3.6
	Method: OECD Test Guideline 117
	GLP: yes

**Mobility in soil**

Mobility : No data available

**Ingredients:**

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol:

Distribution among environmental compartments	: Koc: 4460. Method: OECD Test Guideline 121
Stability in soil	: No data available

**Other adverse effects**

Environmental fate and pathways : No data available

Results of PBT and vPvB assessment : No data available

Endocrine disrupting potential : No data available

Adsorbed organic bound halogens (AOX) : No data available

**Hazardous to the ozone layer**

Ozone-Depletion Potential : Not applicable

Additional ecological information - Product	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.
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Global warming potential (GWP) : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- Waste from residues            : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Contaminated packaging        : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****IATA**

- UN/ID No.                        : UN 3082  
Proper shipping name         : Environmentally hazardous substance, liquid, n.o.s.  
(BISPHENOL F EPOXY RESIN)  
Class                                : 9  
Packing group                    : III  
Labels                               : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

**IMDG**

- UN number                        : UN 3082  
Proper shipping name         : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(BISPHENOL F EPOXY RESIN)  
Class                                : 9  
Packing group                    : III  
Labels                               : 9  
EmS Code                         : F-A, S-F  
Marine pollutant                 : yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

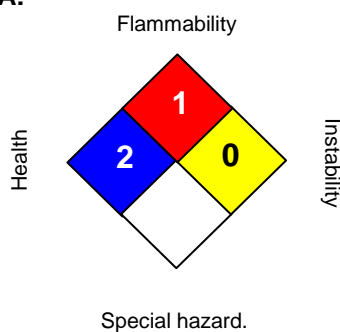
**Domestic regulation****DOT Classification**

- UN/ID/NA number                : UN 3082  
Proper shipping name         : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.



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**SECTION 16. OTHER INFORMATION****Further information****NFPA:****HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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