

Revised date: 2 May, 2011

Section 1: Chemical product and company identification

Product name: UNITIKA UNILATE PC(A)
Manufacturer: UNITIKA LTD.
Address: Osaka Center Bldg., 4-1-3 Kyutaro-machi, Chuo-ku, Osaka, 541-8566 Japan
Tel: +81-6- 6281-5354
Fax: +81-6- 6281-5849
Emergency contact point: 31-3 Uji-Hinojiri, Uji, Kyoto, 611-0021 Japan
 Resins Division, Development and Production Department
 Tel: +81-774- 25-2335 Fax: +81-774- 25-2357

Section 2: Hazards identification

GHS Classification

Physical hazards:	Explosives	Classification not possible
	Flammable gases	Classification not applicable
	Flammable aerosols	Classification not applicable
	Oxidizing gases	Classification not applicable
	Gases under pressure	Classification not applicable
	Flammable liquids	Classification not possible
	Flammable solids	Classification not applicable
	Self-reactive substances and mixtures	Classification not possible
	Pyrophoric liquids	Classification not possible
	Pyrophoric solids	Classification not applicable
	Self-heating substances and mixtures	Classification not applicable
	Substances and mixtures which, in contact with water, emit flammable gases	Classification not possible
	Oxidizing liquids	Classification not possible
	Oxidizing solids	Classification not applicable
	Organic peroxides	Classification not applicable
	Corrosive to metals	Classification not possible

Health hazards:	Acute toxicity (oral)	Classification not applicable
	Acute toxicity (dermal)	Classification not applicable
	Acute toxicity (inhalation-gases)	Classification not applicable
	Acute toxicity (inhalation-vapors)	Classification not possible
	Acute toxicity (inhalation-dust):	Classification not applicable
	Acute toxicity (inhalation-mist)	Classification not applicable
	Skin corrosion/irritation	Classification not applicable
	Serious eye damage/eye irritation	Classification not applicable
	Respiratory sensitization	Classification not possible
	Skin sensitization	Classification not possible
	Germ cell mutagenicity	Classification not applicable
	Carcinogenicity	Classification not applicable
	Reproductive toxicity	Classification not applicable
	Specific target organ toxicity (Single exposure)	Classification not applicable
	Specific target organ toxicity (Repeated exposure)	Classification not applicable
	Aspiration hazard	Classification not applicable
Environmental Hazards:	Hazardous to the aquatic environment-acute	Classification not applicable
	Hazardous to the aquatic environment-Chronic	Classification not applicable

GHS label elements

Pictogram or symbol : —

Signal word : —

Hazard statement : —

Precautionary statement :

Safety measures :

- In order to prevent spill of the product, care should be made so that breaking packaging/ container will not occur.
- Do not inhale generated gases when processing.

First aid measures : When any symptoms persist, receive medical advice and attention.

Storage : Keep away from heat and ignition sources.

Flat placement is recommended. A back board is necessary to prevent warpage and torsion during the storage for the stand placement.

Disposal consideration : General incineration or landfill.

Information on countries and regions : Refer to the “Section 15. Regulatory information”.

Section 3: Composition/ information on ingredients

Discrimination of single substance or mixture: Mixture

Information on ingredients

Chemical name	CAS number	Class reference No. in the JPN Gazetted list	Concentration
Polyester	25038-59-9	7-1022	< 70%
Glass fiber	65997-17-3		> 30%
Mica	12001-26-2		

Section 4: First aid measures

IF IN EYES: The same treatment if foreign material in the eyes. Immediately rinse well with water. Get medical advice/attention if any symptoms (e.g. irritation) persist.

Remove contact lenses, if present. Immediately cool in clean water for more than 15 minutes, and rinse with water. Get medical advice/attention.

IF ON SKIN: No special procedures needed at normal temperature.

In case of molten material, immediately cool in clean water. Do not force to remove the solidified molten material on the skin. Get medical advice/attention if any symptoms (e.g. burn) occur.

IF INHALED: If inhaled a volume of vapors or gases of the molten material, remove victim to fresh air and keep at rest. Get medical advice/attention if any symptoms persist.

IF SWALLOWED: If swallowed small amounts leave to excrete as a waste product. If swallowed large volume of this product by mistake, allow to vomit with plenty of water and get medical advice/attention.

Section 5: Firefighting measures

Procedures for extinction

Use water for extinction as an accepted way of extinction.

Extinguishing media:

Water, carbon dioxide, powder

Protective equipment

It is advisable to wear self-contained breathing apparatus, because hazardous gases (e.g. acetaldehyde, carbon monoxide, etc.) may be contained in case of fire.

Section 6: Accidental release measures

Personal precautions

No information

Protective equipment and emergency procedures

Wear appropriate protective equipment.

Environmental precautions

No information

Methods and material for containment and cleaning up

No information

Section 7: Handling and storage

Precautions for safe handling

Do not fall down, prevent the collapse of cargo piles, carry out the cautions on general product handling.
Sudden impact should be avoid.

Conditions for safe storage, including any incompatibilities

Keep away from heat and ignition sources.

Flat placement is recommended. A back board is necessary to prevent warpage and torsion during the storage for the stand placement.

Section 8: Exposure controls/ personal protection

Control/ administrative exposure standards

Not established.

Threshold values (occupational exposure limits or biological exposure index)

Japan SOH (-): Not established.

ACGIH (-): Not established.

Engineering control

It is advisable to install exhaust ventilation needed when usual processing.

Protective equipment

Respiratory protection: No respiratory protective equipment required in the normal state. Take necessary measures described in “Section 5 Firefighting measures”.

It is advisable to wear protective glasses, protective gloves and protective clothing as appropriate.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance (physical state, shape and color, etc):

Board form

pH: No information available

Melting/freezing point: 253°C

Boiling point, initial boiling point/ boiling range:

No information available

Flash point: No information available

Softening point: No information available

Upper/lower flammability or explosive limits:

No information available

Vapor pressure: No information available

Relative vapor density: No information available

Specific gravity (H₂O=1) ca. 1.6 ~ 1.7

Solubility: Insoluble in water

Auto-ignition temperature: No information available

Decomposition temperature: No information available

Other properties: Soluble in strong acids

Section 10: Stability and reactivity

Flammability: This product will ignite if there are any ignition sources.

Ignition temperature: $\geq 460^{\circ}\text{C}$

Oxidizing property: Not applicable

Self-reactivity/explosibility: No applicable

Dust explosibility: No applicable

Stability and reactivity: Stable

Conditions to avoid: No applicable

Incompatible materials: No applicable

Section 11: Toxicological information (including human case and epidemiological information)

Information on the product

The following description is based on general rule used under normal temperature condition.

Acute toxicity (including 50% lethal concentration): No data available

Skin corrosion/irritation: No data

Serious eye damage/eye irritation: No data available

Respiratory sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity (Single exposure):	No data available
Specific target organ toxicity (Repeated exposure):	No data available
Aspiration hazard:	No data available

Section 12: Ecological information

Ecotoxicity:	No data available
Persistency/degradability:	No data available
Bioaccumulation potential:	No data available
Mobility in soil:	No data available
Hazard to ozon layer:	No data available

Section 13: Disposal consideration

General incineration or landfill

- Incineration:** Incinerate with Incineration facilities which meet requirements for Air Pollution Control Act.
- Landfill disposal:** Waste traders who are certified by the local/regional officer deal with in accordance with Wastes Disposal and Public Cleansing Act.

Section 14: Transport information

International transport information

- UN number:** Not applicable
- UN classification:** Not applicable
- Marine pollutant:** Not applicable

Specific measures for safe transport

Ensure appropriate measures to prevent loading damage due to heavy load of packaging materials.

Section 15: Regulatory information

Enforcement Order of the Industrial Safety and Health Law:

Not applicable (Dangerous substances, Organic solvents, Specific Chemical Substances, Mutagenic substances etc.)

The Law of Pollutant Release and Transfer Register (abbreviated):

Not applicable

Fire Service Law:

Non-dangerous substances

Poisonous and Deleterious Substances Control Act:

Non poisonous and deleterious dangerous substances

Ship Safety Act:

Not applicable

Wastes Disposal and Public Cleansing Act:

Waste plastics

Section 16: Other information

Emergency contact point

UNITIKA LTD.

Resins Division, Development and Production Department

31-3, Uji-Hinojiri, Uji, Kyoto, 611-0021 Japan

Tel: +81-774- 25-2335 Fax: +81-774- 25-2357

Disclaimer

This MSDS has been prepared according to the available information however, been no guarantee of safety of this product. Precautionary measures in this MSDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.

References

JIS Z 7250 : 2010 Safety data sheet for chemical products-Content and order of sections