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SAFETY DATA SHEET

1 . IDENTIFICATION

Name of chemical substances:ACETONE FOR POLYBEST (ACETONE FOR FIBER REINFORCED PLASTICS)

Kinds of product:Acetone

Manufacturer name:SUNDAY PAINT Co., Ltd

Address:1-18-11, 6F SR Building NAGAHORI 1-18-11, MINAMISEMBA, CHUO-KU, OSAKA 542-0081 Japan

Section in charge:Mayor of customer service

Phone number:+81-6-6266-3150

FAX number:+81-6-6266-3146

Emergency telephone number:+81-6-6266-3150

Reference number:0161PA-3-DC

Use:For general use

2 . HAZARDS IDENTIFICATION

GHS classification:

Physicochemical Hazards:

| | |
|---|------------------------------|
| Explosives | :Not classified |
| Flammable gases | :Not applicable |
| Flammable aerosols | :Not applicable |
| Oxidizing gases | :Not applicable |
| Gases under pressure | :Not applicable |
| Flammable liquids | :Category 2 |
| Flammable solids | :Not applicable |
| Self-reactive substances and mixtures | :Classification not possible |
| Pyrophoric liquids | :Not classified |
| Pyrophoric solids | :Not applicable |
| Self-heating substances and mixtures | :Not classified |
| Substances and mixtures which, in contact with water, emit flammable gases | :Not classified |
| Oxidizing liquids | :Not classified |
| Oxidizing solids | :Not applicable |
| Organic peroxides | :Classification not possible |
| Corrosive to metals | :Classification not possible |

Health hazards:

| | |
|--|--|
| Acute toxicity - oral | :Not classified |
| Acute toxicity - dermal | :Not classified |
| Acute toxicity-inhalation/gases | :Not applicable |
| Acute toxicity-inhalation/vapour | :Not classified |
| Acute toxicity-inhalation/dusts and mists | :Classification not possible |
| Skin corrosion / irritation | :Classification not possible |
| Serious eye damage /irritation | :Category 2 |
| Respiratory sensitization | :Classification not possible |
| Skin sensitization | :Not classified |
| Germ cell mutagenicity | :Not classified |
| Carcinogenicity | :Classification not possible |
| Reproductive toxicity | :Category 2 |
| Specific target organ systemic toxicity (single exposure) | :Category 3 (Respiratory tract irritation , Narcotic effects) |
| Specific target organ systemic toxicity (repeated exposure) | :Classification not possible |
| Aspiration toxicity | :Not classified |

Environmental hazards:

| | |
|--|------------------------------|
| Hazardous to the aquatic environment (acute toxicity) | :Classification not possible |
| Hazardous to the aquatic | |

environment (chronic toxicity) :Classification not possible
 GHS label elements:
 Pictogram or symbol:



Signal words: Danger

Hazard statement:

Highly flammable liquid and vapour.
 May cause organic solvent poisoning.
 Causes serious eye irritation.
 Suspected of damaging fertility or the unborn child.
 May cause respiratory irritation.
 May cause drowsiness and dizziness.

Precautionary statements:

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment - if the explosive is electrostatically sensitive.
 Use explosion-proof electrical/ventilating/lighting Equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Wear protection gloves, protection glasses, protection side, protection clothes.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Use only outdoors or in a well-ventilated area.
 Keep container tightly closed.

First aid measures:

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 In case of fire, use Carbon dioxide gas, foam, dry powder.
 IF exposed or concerned: Get medical attention/advice.
 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 Call a POISON CENTER/doctor/physician if you feel unwell.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists, get medical advice/attention.

Storage:

Store in cool/well-ventilated place.
 Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere.
 Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulation.

3 . COMPOSITION / INFORMATION ON INGREDIENTS

Classification of the substance or mixture: A mixture.

Chemical or generic name: No information

Chemical characteristic (chemical formulas): No information

Poisonous and Deleterious Substances Control Act: No correspond

Component name:

| Ingredient name | CAS no | Content (%) | Industrial Safety and Health Act | Poisonous and Deleterious Substances Control Act | Pollutant Release and Transfer Register Law |
|-----------------|---------|--------------|----------------------------------|--|---|
| acetone | 67-64-1 | 90.0 ~ 100.0 | | - | |

4 . FIRST AID MEASURES

Inhalation:

If inhaled vapour or gases and felt unwell, remove to fresh air and keep at rest in a position comfortable for breathing.
 And call a doctor /physician if feels unwell.

Skin contact:

Wipe off clinging substance with clean cloth quickly.
Wash off thoroughly with plenty of water and soap. Do not use solvent or paint thinner.
If any change of appearance is seen, or pain persists and feels unwell,
consult a doctor/physician.

Eye contact:

Wash off with plenty of clean water immediately for 15 minutes or more. And remove contact lens, if presence and easy to do.
And completely wash it including the underside of eyelid.
Consult a physician as soon as possible.
Call a POISON CENTER or doctor/physician immediately.

Ingestion:

If swallowed accidentally, rest and consult a doctor/physician immediately.
Do not let swallow vomit.
Avoid forcing to vomit without physician's instruction.

The protection of the person taking first aid measure.:

Wear proper protectors (safety goggles, respirator, gloves,etc.)
Ventilate

5 . FIRE-FIGHTING MEASURES

Extinguishing compositions:Carbon dioxide gas, foam , dry powder
Must not use extinguishing compositions:Water (stick water, high pressure water jet)
Special fire extinguishing method(protection of fire-fighting person):
Wear proper protectors (heat-resistant clothes,etc.)
Remove flammable matters immediately.
Use designated extinguishant.
If sealed container is exposed to high temperature, water to cool.
Fire-fight from windward.

6 . ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Wear proper protectors (safety goggles, respirator, gloves, apron,etc.)
Declare off-limits of the outskirts and do not bring it close anyone other than the person concerned and prevent a second disaster.
Remove ignition source, heat source and flammable matters immediately.
Prepare proper extinguisher for accidental fire.

Environmental precautions:

Take cautions not to cause influence on environment by discharge to river.

Methods and materials for containment and cleaning up:

Dispose of waste or clinging matter according to related regulation.
Recollect leakage in the container can be sealed and keep in safety place.
Recollect with tool of non-spark material.
Recollect with drysand,soil, or other non-flammable matter. If in large quantity, prevent from flowing out by banking.

7 . HANDLING AND STORAGE**Handling:****Handling technical measures:**

Handle in good ventilated area.
Close container tightly with closer after use.
Take away from open flame, spark,heat-source
Use a non-spark type hand tool.
While working, wear antistatic working suits and shoes.
Wear proper protectors to prevent from contact on skin, mucous membrane, wearing clothes and eyes.
Wash hands and face well after handling, and avoid to bring polluted protectors in any place where person stays.
In closed place, ensure good local exhaust ventilation and wear proper protectors.

Handling instructions:

As a measure against static electricity accident, ground equipment and use electric appliances of explosion proof type.
A material product that contains Class 2 Organic Solvents on exceeding 5% is obligated to be stored in a closed equipment or in local exhaust ventilation equipment.

Storage:

Storage, technical measures:

Avoid a direct sunlight.

Keep in good ventilated place.

Keep away from open flame and heat source.

8 . EXPOSURE CONTROLS / PERSONAL PROTECTION

Taking measures for equipment:

Use explosion proof type equipment.

Install ventilation equipment to prevent concentrating of vapour.

Ground equipment for transferring, pumping and stirring of fluid.

Provide equipment devised so that heat or ignition source can not be placed in the neighborhood of handling place.

In door application, use either not to expose the operator directly, such as using automatic painting machines, or that keeps the operator from exposure, such as local exhaust ventilation equipment.

In application in closed space such as inside of tank, install equipment that can ventilate completely even its bottom.

Consider so that the operator can not touch or expose to corrosive substance directly.

Management density / permission density:

| Chemical substance name | Exposure limits pp m | Exposure limits mg /m3 | Skin |
|-------------------------|-------------------------|---------------------------|------|
| acetone | 500 | | |

| Chemical substance name | ACGIH_TWA ppm | ACGIH_TWA mg/m3 | Skin |
|-------------------------|---------------|-----------------|------|
| acetone | 500 | 1180 | |

Protective equipment:

Respiratory protective equipment:

Wear a gas mask for poisonous gases.

Wear a mask with supplying air in closed place.

Hand protective equipment:

Wear the glove that organic solvents or chemicals can not permeate through.

Eyes protective equipment:

Wear protective eyeglasses or goggles.

Skin and body protective equipment:

Wear suitable clothing that should be impervious to chemicals and to avoid direct contact of skin in handling.

Other information:

Wear electricity shoes on electrostatic painting.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical state:Liquid

Colour:No information

Odour:No information

pH:No information

Melting point/freezing point:No information

Initial boiling point and boiling range:56[]

Flash point:-18[]

Auto-ignition temperature(ignition point):465[]

Flammability (solid, gas):No information

Upper/lower flammability or explosive limits:13[vol %] / 2.2[vol %]

Vapor pressure:30664[Pa] (25[])

Vapour density:No information

Evaporation rate:No information

Specific gravity (relative density):0.791

Solubility:

Solubility in water:No information

Dissolubility in water:No information

Solubility in solvent:No information

Dissolubility in solvent:No information

Partition coefficient:n-octanol/water:No information

Decomposition temperature:No information

1 0 . STABILITY AND REACTIVITY

Stability(possibility of hazardous reaction) :

There is no dangerous reaction in the range of room temperature.

Product is considered stable.

Conditions to avoid:

Avoid high temperature.

Hazardous decomposition products:

Hazardous gases such as carbon monoxide may be generated.

1 1 . TOXICOLOGICAL INFORMATION

Serious eye damage /irritation:

acetone Category 2B

Reproductive toxicity:

acetone Category 2

Specific target organ / systemic toxicity - single exposure:

acetone Category 3

(Respiratory tract irritation , Narcotic effects)

Aspiration hazard:

acetone Category 2

1 2 . ECOLOGICAL INFORMATION

Take care for spills or waste in handling because of its environmental impact. Especially take care for product or rinsing water not to flow into ground, river and drain directly.

1 3 . DISPOSAL CONSIDERATIONS

Residual waste:

Let authorized industrial waste disposing agent to dispose of abolished paint, containers and others under agreement.

Dispose of abolished paint, materials and waste from incineration in accordance with regulation or laws of "Specified Hazardous Industrial Wastes" of Special Controlled Industrial Waste.

Must not dispose of waste water from washing container, machinery and etc. into the ground or drain without treatment.

Dispose of waste from waste water treatment, incineration and etc. in accordance with regulation or laws relating to disposal and cleaning of waste, or let special disposing agent to dispose.

Incinerate abolished paint absorbed to diatomaceous earth by small quantity in the open-type incinerator. Or incinerate them by spraying in the fire box. If it is apprehended that hazardous gases such as dioxins are generated, let authorized industrial waste disposing agent to dispose under agreement.

Let authorized industrial waste disposing agent to dispose of abolished paint and materials under agreement, because there are specified as Special Controlled Industrial waste(waste oil).

Polluted container and packing:

Let authorized industrial waste disposing agent to dispose of them under agreement.

Dispose of used container after removing contents completely.

1 4 . TRANSPORT INFORMATION

After confirming the state of container had no leakage,and load to prevent collapsing,fall and damage.

Obey the description of "Handling and Storage"

IMDG:3

UN number:1090

Packing group: II

Land transportation:

If falling under "Fire Service Act", "Industrial Safety and Health Act" or "Poisonous and Deleterious Substances Control Act" , obey the transport method regulated in each law.

Marine transportation:

Obey the provisions of " Ship Safety Act"

Air transportation:

Obey the provisions of "Civil Aeronautics Act"

Indicator number:127

1 5 . REGULATORY INFORMATION

Fire and Disaster Management Act:

Dangerous Materials Class 4 Group 1 Petroleum, dangerous grades II.

Industrial Safety and Health Act:

Table 1-4 by Act of Parliament, Flammable material

Article 57-2, notifiable substances

Ordinance on Prevention of Organic Solvent Poisoning, Class 2 Organic Solvents

Waste Management and Public Cleaning Act:

1 6 . OTHER INFORMATION

Literatures:

"Raw Materials Database" edited by Japan Paint Manufacturers Association

"Materials Safety Data Sheet Guide (Mixture)" edited by Japan Paint Manufacturers Association

"Solvent Pocket Book" Ohmsha, Ltd.

The Handbook for Precautions and First Aids to Dangerous Goods.

International Chemical Safety Cards.

Other information:

This SDS is necessary to handle our manufacture property and gathered up the matter which must be paid attention briefly for normal handling.

However the content noted above is prepared based on information or data available at the present, the evaluation of hazardousness and harmfulness is not adequate necessary, so be careful in handling.

This SDS may be revised without notice by revising law or new knowledge.

This SDS is based on the standard of Japan Paint Manufacturers Association with Laws of Japan but not from local government, accord to relevant local laws as required when handling.