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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:06-6266-3150
FAX number:06-6266-3146
Emergency telephone number:06-6266-3150
Reference number:0161PA-5-DC
Use:Cleaning solvent for POLYBEST
Restrictions on use:It is not recommend to use except for the recommendation to use.

2. HAZARDS IDENTIFICATION

GHS classification:

Physicochemical Hazards:

Explosives	:Classification not possible
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	:Classification not possible
Pyrophoric solids	:Not applicable
Self-heating substances and mixtures	:Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	:Classification not possible
Oxidizing liquids	:Classification not possible
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 2B
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	:Category 2

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 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/hotsurfaces. - 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.
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.
Wash thoroughly after handling.
Wear protection gloves, protection glasses, protection side, protection clothes.

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 RN	Content (%)	Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act	Pollutant Release and Transfer Register Law
acetone	67-64-1	100	○	-	

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

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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.

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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.

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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.

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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 ppm	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:

In working,wear proper protection mask.
Wear a gas mask for poisonous gases.
Wear a mask with supplying air in closed place.
Wear the proper protection mask against the hazardous substance.

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Liquid
Colour:No information
Odour:No information
Melting point/freezing point:No information
Initial boiling point and boiling range:56[℃]
Appearance:No information
Upper/lower flammability or explosive limits:13[vol %] ／ 2.2[vol %]
Flash point:-18[℃]
Auto-ignition temperature(ignition point):465[℃]
Decomposition temperature:No information
pH:No information
Flammability (solid, gas):No information
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

Vapor pressure:30664[Pa] (25[℃])
Specific gravity (relative density):No information
Vapour density:No information
Evaporation rate:No information

１０. 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.
Incompatible materials:
No information
Hazardous decomposition products:
Hazardous gases such as carbon monoxide may be generated.
Reactivity:
No information
Chemical stability:
No information

１１. TOXICOLOGICAL INFORMATION

Acute toxicity:
No information
Skin corrosion/irritation:
No information
Serious eye damage /irritation:
acetone Category 2B
Respiratory sensitization:
No information
Mutagenicity (germ cell mutagenicity):
No information
Carcinogenicity:
No information
Reproductive toxicity:
acetone Category 2
Specific target organ / systemic toxicity - single exposure:
acetone Category 3
(Respiratory tract irritation, Narcotic effects)
Specific target organ / systemic toxicity - repeated exposure:
No information
Aspiration hazard:
acetone Category 2

１２. 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.
Persistence/ degradability:
Not Available
Bioaccumlation potential:
Not Available
Mobility in soil:
Not Available
Ozone depletion index:
Not Available
Ecotoxicity :
Hazardous to the aquatic environment - Chronic hazard:
No information
Hazardous to the aquatic environment - Acute hazard:
No information

１３. 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.

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１４. 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"

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"

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１５. REGULATORY INFORMATION

Fire and Disaster Management Act:
Dangerous, Category 5, Div.2, self-reactive substances , dangerous grades II.

Industrial Safety and Health Act:
Article 57-2, notifiable substances
Ordinance on Prevention of Organic Solvent Poisoning, Class 2 Organic Solvents

Waste Management and Public Cleaning Act:

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１６. 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.