

# SAFTY DATA SHEET

Product name : DELPET™  
SDS reference number: AKDP-23(EN)  
Prepared on: Dec. 20, 2017  
Revised on: Aug. 1, 2020 (3) 1/9

## 1. CHEMICAL AND COMPANY IDENTIFICATION

Product name : DELPET™  
SR6201, SR6351 SR6501, SR8201, SR8351, SR8401,  
SR8501, SRB101, SRJ251

SDS reference number : AKDP-23(EN)

Company name of supplier : Asahi Kasei Corporation  
Address : Hibiya Mitsui Tower, 1-2, Yuraku-cho 1-chome,  
Chiyoda-ku, Tokyo, 100-0006

Department in charge : Acrylic Resin Sales Department, MMA Division

TEL number : +81-3-6699-3286

FAX number : +81-3-6699-3460

Emergency contact : +81-44-271-4450 (<Weekdays> Mon-Fri: 9:00-18:00)  
(Acrylic Resin Technology Development Department,  
MMA Division)

Restriction on use : This product should not be used for medical equipment  
and products that come into contact with human tissues  
or body fluids in the long term (30 days or longer), as well  
as for those that may come into contact with infants'  
mouth or swallow.  
If you are using this product for medical purposes not  
listed above, for food and drinking-water contact  
applications, for cosmetics, toys, sports applications, etc.,  
please contact our Acrylic Resin Sales Department in  
advance. You can consult individually.

## 2. HAZARDS IDENTIFICATION

[GHS Classification of the chemical] : Not applicable to the classification criteria.

[GHS label elements]

Pictogram or symbol : None

Signal word : None

Hazard statement : None

Precautionary statement

Health hazard : Although the chemical is pellet form, it is easily to be  
inhaled if dusty.  
Pay attention to burns caused by heated polymer.

Physical and chemical hazard : The chemical is Designated flammable goods by Fire  
Service Law.  
Dust explosion hazard is caused if dust is generated.

# SAFTY DATA SHEET

Product name : DELPET™  
SDS reference number: AKDP-23(EN)  
Prepared on: Dec. 20, 2017  
Revised on: Aug. 1, 2020 (3) 2/9

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical substance/Mixture : Mixture  
Chemical/general name : Mixture of Methyl methacrylate / butyl acrylate / styrene copolymer and methyl methacrylate / methyl acrylate copolymer and related components  
Common name/synonym : Methacrylic resin

Component, concentration range, Official Gazette Reference No. and common numbers that can identify chemicals (CAS Registry No).

Component	Concentration range	Official Gazette Reference No.	CAS Registry No.
Methyl methacrylate / butyl acrylate / styrene copolymer	10-50 wt%	CSCL/ISHA* (6)-186	27136-15-8
Methyl methacrylate / methyl acrylate copolymer	> 43.7 wt%	CSCL/ISHA* (6)-553	9011-87-4
Methyl methacrylate	< 1.0 wt%	CSCL/ISHA* (2)-1036	80-62-6
Methyl acrylate	< 0.1 wt%	CSCL/ISHA* (2)-987	96-33-3
Butyl acrylate	< 0.1 wt%	CSCL/ISHA* (2)-989	141-32-2
Styrene	< 0.1 wt%	CSCL/ISHA* (3)-4	100-42-5
Others	< 5.0 wt%	All are existing chemical substances, but their numbers are trade secret and confidential	Trade secret and confidential

\*CSCL = Chemical Substances Control Law in Japan,  
ISHA = Industrial Safety and Health Act in Japan

As other components, the product contains antioxidants, weather stabilizers, lubricants, colorants (including color adjustment agents), and the like, if necessary.

Colored products may contain Notifiable Substances at or above their cut-off limits under Industrial Safety and Health Act.

## 4. FIRST AID MEASURES

If inhaled : If dust is inhaled, move to fresh air.  
If you feel sick by inhaling gases generated from hot melts, immediately move to fresh air and wait for recovery. If not recover, get medical advice/attention.

If on skin : Remove pellets and powders from not only skin but also from clothing, shoes, etc. Rinse further with water.  
If aggregates of generated gases from hot melts adhere, wash well with soapy water.  
If the molten resin adheres, apply a large amount of water over the top of the clothing to cool it thoroughly. After

# SAFTY DATA SHEET

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Prepared on: Dec. 20, 2017  
Revised on: Aug. 1, 2020 (3) 3/9

---

	that, remove the clothing and get medical advice/attention immediately.
If in eyes	: If dust, etc. is in eyes, rinse with clean water for at least 15 minutes without rubbing because rubbing may damage eyes. Remove contact lenses, if present and easy to do. If discomfort remains, get ophthalmologist advice/attention.
If swallowed	: Rinse inside the mouth well with water. The product is not a dangerous substance. Do not induce vomiting. If discomfort remains, get medical advice/attention.
Precaution for protection of the person who gives the first aid	: Wear heat-resistant gloves when removing melted resin, etc.

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## 5. FIRE-FIGHTING MEASURES

Suitable fire extinguishing media	: Water, water spay, powder extinguisher, foam extinguisher.
Unsuitable fire extinguishing media	: No information available.
Specific hazards arising at fire	: Precaution should be taken because black smoke and gas containing harmful carbon monoxide and volatiles such as monomers are generated at fire due to thermal decomposition or incomplete combustion.
Specific fire fighting method	: Fire extinguishing should be done from windward side. If not dangerous to do, remove the combustion sources to the fire. Use powder extinguisher for an initial fire. In the case of a large-scale fire, it is effective to shut off the air using foam extinguisher.
Special protective equipment and precautions for fire-fighters	: Surely wear protective equipment such as self-contained breathing apparatus, protective clothing and protective gloves.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: If pellets are scattered on roads or floors, they should be collected immediately because they are slippery.
Environmental precautions	: Because discharge of spilled materials to rivers, seas, etc. causes environmental pollution, collect all leaked materials quickly.
Methods and materials for containment and cleaning up	: In case of small quantities, sweep and collect with a vacuum cleaner, broom, etc. Scoop or sweep leaked materials and collect them in paper bags, drums, etc.
Prevention of secondary disaster	: Because the product is flammable, prohibit using of fire.

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# SAFETY DATA SHEET

Product name : DELPET™  
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Prepared on: Dec. 20, 2017  
Revised on: Aug. 1, 2020 (3) 4/9

## 7. HANDLING AND STORAGE

### Handling

- Engineering measures : If powdered resin is present, there is a possibility of dust explosion, therefore it is necessary to take measures against residence of them.  
To eliminate static electricity from equipment such as air transfer, bag filter and hopper, perform effective grounding. If necessary, perform dust explosion prevention measures such as using inert gases like nitrogen.  
In the case of air transfer, surely perform measures to prevent dust explosions such as using lower transfer rate and lower oxygen concentration in the air, etc.
- Precautions for safe handling : Handle in a well-ventilated area.
- Contact avoidance : No information available.
- Hygienic measures : Wash hands and face thoroughly with soap after handling.

### Storage

- Safe storage conditions : Store in a place protected from direct sunlight, away from ignition sources, and without abrupt temperature changes, water leakage, or high humidity.
- Safe container materials : Since it is hygroscopic, use polyethylene bags, etc.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

- Acceptable concentrations, etc. : When dust is present, it is appropriate to apply the following values:  
The Japan Society for Occupational Health/2019  
Acceptable concentration as Class 3 dust  
Total dust: 8 mg/m<sup>3</sup>  
Respirable dust: 2 mg/m<sup>3</sup>  
ACGIH (American Conference of Governmental Industrial Hygienists)/2019  
Recommended concentration as general dust  
INHALABLE PARTICULATE: <10 mg/m<sup>3</sup>  
RESPIRABLE PARTICULATE: < 3 mg/m<sup>3</sup>
- Facility measures : If dust is generated, or steam/gas is generated by melt-kneading, etc., install an explosion-proof local exhaust ventilation system.
- Protection equipment
- Respiratory protection : Wear a dust mask to prevent inhalation of dust, etc.
- Hand protection : It is preferable to use protective gloves made of rubber or resin so as not to touch the skin directly.
- Eye/face protection : Wear protective glasses, goggles, etc. to prevent dust, etc. from entering the eyes.
- Skin and body protection : Wear long-sleeved cuffs-closed working clothes to avoid direct skin contact.

# SAFTY DATA SHEET

Product name : DELPET™  
SDS reference number: AKDP-23(EN)  
Prepared on: Dec. 20, 2017  
Revised on: Aug. 1, 2020 (3) 5/9

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Solid
Color	: Colorless and transparent, but there are also colored items.
Odor	: Almost none
Melting/Freezing point	: There is no clear melting point, but the product softens gradually from around 100° C.
Boiling point, initial boiling point and boiling range	: No data available.
Flammability	: Flammable substance.
Explosion range	
Lower limit	: Not applicable.
Upper limit	: Not applicable.
Flash point	: Not applicable.
Auto ignition point	: Not applicable.
Decomposition point	: No data available
pH	: Not applicable.
Kinematic viscosity	: Not applicable.
Solubility	
in water	: Insoluble.
in other solvents	: Soluble in aromatic hydrocarbons and ester groups.
n-octanol/water partition coefficient (log value)	: Not applicable.
Vapour pressure	: No data available.
Density and/or relative density	: 1.10-1.19 g/cm <sup>3</sup> (23°C, varies by the content of acrylic rubber)
Relative gas density	: Not applicable.
Particle characteristics	: Pellet form: Approximately cylinder (cylinder or elliptic cylinder) Pellet size: Average diameter: 1.5-3 mm Average length: 2-4 mm

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## 10. STABILITY AND REACTIVITY

Reactivity	: No self-reactivity.
Chemical stability	: Stable under general storage and handling.
Possibility of hazardous reactions	: No information available.
Conditions to avoid	: Storing at high temperature and high humidity.
Incompatible materials	: Burning materials, hot materials
Hazardous decomposition products	: Carbon monoxide, carbon dioxide, acrylic monomer and styrene monomer at high-temperature decomposition.

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# SAFTY DATA SHEET

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 Prepared on: Dec. 20, 2017  
 Revised on: Aug. 1, 2020 (3) 6/9

## 11. TOXICOLOGICAL INFORMATION

\* The product contains less than 1.0 % of methyl methacrylate. Test data as mixture is not available, therefore hazard information on each component and GHS classifications as mixture are described below.

\* This GHS classification is based on JIS Z 7252:2019 "Classification methods for chemicals, etc. based on GHS ". The hazard information of methyl methacrylate is based on the GHS classification result of National Institute of Technology and Evaluation.

	Resin component* <sup>1</sup> Additives, etc.* <sup>2</sup>	Methyl methacrylate	Classification as mixture
Content	*1: >93.7 wt% *2: <5.3 wt%	< 1.0 wt%	
Acute toxicity (oral)	Classification not possible	Not classified	<b>Classification not possible</b> ((1) below)
Acute toxicity (dermal)	Classification not possible	Not classified	<b>Classification not possible</b> ((2) below)
Acute toxicity (inhalation, vapour)	Classification not possible	Category 4 (LC50 = 7,093 ppm)	<b>Classification not possible</b> ((3) below)
Skin corrosion/irritation	Classification not possible	Category 2	<b>Classification not possible</b> ((4) below)
Serious eye damage/eye irritation	Classification not possible	Category 2	<b>Classification not possible</b> ((5) below)
Respiratory/skin sensitization	Classification not possible	Category 1 (Respiratory sensitization, skin sensitization)	<b>Classification not possible</b> ((6) below)
Germ cell mutagenicity	Classification not possible	Classification not possible	<b>Classification not possible</b> ((7) below)
Carcinogenicity	Classification not possible	Classification not possible	<b>Classification not possible</b> ((8) below)
Reproductive toxicity	Classification not possible	Classification not possible	<b>Classification not possible</b> ((9) below)
Specific target organ toxicity/systemic toxicity (single exposure)	Classification not possible	Category 1 (Respiratory system); Category 3 (Narcotic effects)	<b>Classification not possible</b> ((10) below)
Specific target organ toxicity/systemic toxicity (repeated exposure)	Classification not possible	Category 1 (nervous system, respiratory system)	<b>Classification not possible</b> ((11) below)
Aspiration hazard	Classification not possible	Classification not possible	<b>Classification not possible</b> ((12) below)

(1) The product is classified as '**Classification not possible**' because classification of methyl methacrylate is 'Not classified' based on LD50 = 7,800 mg/kg from an oral study in rats (ACGIH (7<sup>th</sup>, 2015) and does not affect classification of the product.

(2) The product is classified as '**Classification not possible**' because classification of methyl methacrylate is 'Not classified' based on LD50 > 5,000 mg/kg from a dermal study in rabbits (EU-RAR (2002) and does not affect classification of the product.

(3) The product is classified as '**Classification not possible**' although classification of methyl methacrylate is 'Category 4' based on the report of LC50 = 7,093 ppm from a 4-hr inhalation study in rats (ECETOC JACC30 (1995), EU-RAR (2002) and ACGIH (7<sup>th</sup>, 2015)), but the content

## SAFTY DATA SHEET

of methyl methacrylate is less than 1 % and does not affect classification of the mixture.

(4) The product is classified as '**Classification not possible**' although classification of methyl methacrylate is 'Category 2' but the content is less than 1 % and does not affect classification of the mixture; and the contents of other components of 'Classification not possible' are 1 % or more.

(5) The product is classified as '**Classification not possible**' although classification of methyl methacrylate is 'Category 2' but the content is less than 1 % and does not affect classification of the mixture; and the contents of other components of 'Classification not possible' are 1 % or more.

(6) The product is classified as '**Classification not possible**' although containing methyl methacrylate of 'Category 1 (Respiratory sensitization, skin sensitization)' but the content is less than 1 % and regarded as 'Not applicable'; but the contents of other components of 'Classification not possible' are 0.1 % or more.

(7) The product is classified as '**Classification not possible**' because classification of methyl methacrylate is 'Classification not possible' and the contents of other components of 'Classification not possible' are 0.1 % or more.

(8) The product is classified as '**Classification not possible**' because classification of methyl methacrylate is 'Classification not possible' and the contents of other components of 'Classification not possible' are 0.1 % or more.

(9) The product is classified as '**Classification not possible**' because classification of methyl methacrylate is 'Classification not possible' and the contents of other components of 'Classification not possible' are 0.1 % or more.

(10) The product is classified as '**Classification not possible**' although containing methyl methacrylate of 'Category 1 (Respiratory system); Category 3 (Narcotic effects)' but the content is less than 1 % and regarded as 'Not applicable'; but the contents of other components of 'Classification not possible' are 1 % or more.

(11) The product is classified as '**Classification not possible**' although containing methyl methacrylate of 'Category 1 (respiratory system, nervous system)' but the content is less than 1 % and regarded as 'Not applicable'; but the contents of other components of 'Classification not possible' are 1 % or more.

(12) The product is classified as '**Classification not possible**' because all components are classified as 'Classification not possible'.

## 12. ECOLOGICAL INFORMATION

\* The product contains less than 1.0 % of methyl methacrylate. Test data as mixture is not available, therefore hazard information on each component and GHS classifications as mixture are described below.

\* This GHS classification is based on JIS Z 7252:2019 "Classification methods for chemicals, etc. based on GHS ". The hazard information of methyl methacrylate is based on the GHS classification result of National Institute of Technology and Evaluation.

		Resin component* <sup>1</sup> Additives, etc.* <sup>2</sup>	Methyl methacrylate	Classification as mixture
Content		*1: >93.7 wt% *2: <5.3 wt%	< 1.0 wt%	
Ecotoxicity	Aquatic toxicity, Short term (acute)	Classification not possible	Category 3 (48hr EC50 = 48 mg/L)	<b>Classification not possible</b> ((1) below)
	Aquatic toxicity, Long term (chronic)	Classification not possible	Not classified	<b>Classification not possible</b> ((2) below)
Hazards to the Ozone layer		Classification not possible	Classification not possible	<b>Classification not possible</b> ((3) below)

# SAFTY DATA SHEET

Product name : DELPET™  
SDS reference number: AKDP-23(EN)  
Prepared on: Dec. 20, 2017  
Revised on: Aug. 1, 2020 (3) 8/9

- (1) The product is classified as '**Classification not possible**' although classification of methyl methacrylate is 'Category 3' but the content is less than 1 % and does not affect classification of the mixture.
- (2) The product is classified as '**Classification not possible**' because classification of methyl methacrylate is 'Not classified', the content is less than 1 % and does not affect classification of the mixture.
- (3) The product is classified as '**Classification not possible**' because it does not contain components of the regulated substances listed in the Annex of the Montreal Protocol,

Persistence/degradability : No data available.  
Bio accumulation : No data available.  
Mobility in soil : No data available.

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## 13. DISPOSAL CONSIDERATION

Information on safe and environmental proper disposal or recycling of chemicals, polluted containers and packages : In principle, dispose of by incineration or landfill. When incinerating, use incineration facilities to treat and incinerate in accordance with Air Pollution Control Act, etc. When landfilling, treat in accordance with "Waste Management and Public Cleansing Act". Or consign to a specialized disposal contractor approved by the prefectural governor.  
Do not dump or release in any oceans or waters to prevent marine pollution.  
Dispose of empty bags properly without reuse or diversion.

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## 14. TRANSPORT INFORMATION

International regulations  
UN number : Not applicable.  
UN class : Not applicable.  
Special safety precautions related to transportation or means of transportation : Confirm no breakage, etc. of the bag before transport. Load the product in a way that does not cause tumbling, falling or damaging. Make sure to take measures to prevent load shift.

Japanese regulations if applicable  
Marine regulations : Transport using the container and loading method in accordance with Act on Prevention of Marine Pollution and Maritime Disaster and Ship Safety Act.  
Air regulations : Transport using the container and loading method in accordance with Civil Aeronautics Act.  
Land regulations : Transport using the container and loading method in accordance with Road Act and Fire Service Act (Designated flammable goods (Synthetic resins)).

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# SAFTY DATA SHEET

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Revised on: Aug. 1, 2020 (3) 9/9

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## 15. REGULATION INFORMATION

Name of the applicable laws/regulations, and information on regulations based on the laws/regulations in Japan

Industrial Safety and Health Act (Article 57-2, Enforcement Order, Article 18-2, Attached Table 9) (Substances Subject to Notify Information on Danger or Harm, etc. (Notifiable Substance))	: Contains less than 1% of 'methyl methacrylate' (Cabinet Order Number: 557). Colored products may contain cut-off values or more of 'Carbon black' (Cabinet Order Number: 130), 'Mineral oil' (Cabinet Order Number: 168), 'Titanium (IV) oxide' (Cabinet Order Number: 191) and/or 'Magnesium stearate' (Cabinet Order Number: 327).
Fire Service Act	: Designated flammable goods -Synthetic resins (3,000 kg or more)
Waste Management and Public Cleansing Act	: Industrial Waste (Waste plastics)
Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (PRTR Act)	: Not applicable.
Poisonous and Deleterious Substances Control Act	: Not applicable.

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## 16. OTHER INFORMATION

1. This Safety Data Sheet (SDS) was prepared based on the most recent materials and data currently available. It may be revised due to new findings.
2. The precautions in the SDS are intended for normal handling. If you treat specially, use the product after implementing safety measures appropriate for the intended usage and use method.
3. Confirm suitability of the product with laws and regulations, specifications and standards, restrictions on use, etc. for your usage and safety/suitability of required properties corresponding to the usage at your company's liability, and determine whether it can be used or not.
4. If there are compounding agents or additives used with this product, the safety should be investigated by your company.
5. When information on safety of the product is required, contact Acrylic Resin Sales Department, MMA Division, Asahi Kasei Corporation.
6. We pay careful attention to the content of the SDS, but we do not guarantee it.

Contact: Acrylic Resin Sales Department, Asahi Kasei Corporation  
Telephone No.: +81-3-6699-3286

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