

Issued 18-Apr-12  
 Amended 14-Dec-16  
 SDS No. 52009300000

## Safety Data Sheet

### 1 Identification;

Product Name **NX Hardener**  
 Product explanation type URETHANE COATING/HARDENER  
 Intended Use Industrial coating for metal and plastics  
 Company name Edogawagosei Co., Ltd.  
 Address 84-2 Singo Higashimatsuyama-shi Saitama, Japan  
 Department in charge Technical division  
 Phone 81-493-26-0781  
 Fax 81-493-26-0786  
 Emergency number 81-493-26-0781

### 2 Hazard identification

#### Symbols



#### Signal word

**DANGER**

Hazard class(GHS chapter)	Category	Physical hazard statements
Flammable liquids	2	High flammable liquid and vapor
Acute toxicity Oral	-	Not classified.
Skin	-	Not classified.
Inhalation/Gases	-	Exempt classification.
Inhalation/Vapors	-	Not classified.
Inhalation/Dust, Mist	-	Exempt classification.
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/eye irritation	2A	Causes serious eye irritation.
Respiratory sensitization	-	Not classified.
Skin sensitization	-	Not classified.
Germ cell mutagenicity	-	Not classified.
Carcinogenicity	2	Suspected of causing cancer.
Toxic to reproduction	1B	May damage fertility or the unborn child.
Specific target organ system toxicity single exposure	1	Causes damage to organs... [liver,kidney,respiratory organ,central nervous system]
Specific target organ system toxicity repeated exposure	1	Causes damage to organs...through prolonged or repeated exposure. [nervous system,respiratory organ]
Aspiration hazard	-	Not classified.
Acute hazards to the aquatic environment	1	Very toxic to aquatic life.
Long-term hazards to the aquatic environment	3	Harmful to aquatic life with long lasting effects.
Hazard to the ozone layer	-	Not classified.

### 3 Composition/information on ingredients;

Distinction of a single product-mixture: mixture

Ingredients	CAS No.	contents(%)	note
n-butyl acetate	123-86-4	22.0%	
ethylbenzene	100-41-4	11.0%	
xylene	1330-20-7	11.0%	
hexamethylene diisocyanate	822-06-0	0.2%	

#### 4 First-aid measures;

##### IF IN EYES:

- Immediately rinse your eyes under clean running water for at least 15 minutes.
- By lifting the upper and lower eyelids, make a complete cleaning of the eye.
- Remove contact lenses, if present and easy to do.
- Immediately call a POISON CENTER or doctor/physician if you feel unwell.

##### IF ON SKIN:

- Immediately wipe the product off your skin with a cloth.
- Wash away the matter thoroughly with water and soap or a with skin cleaning detergent.
- If the contacted skin changes in appearance or gives you pain, consult a doctor.

##### IF INHALED:

- If a vapor or gas is inhaled in large amounts, immediately move to a clean place for a breath of fresh air and take a rest, keeping yourself warm.
- Care should be taken so that anything thrown up may not be swallowed.
- In case of suffocation, artificial respiration should be practiced.
- To perform (CPR) cardiopulmonary resuscitation if necessary.
- SDS and labels are shown in the physician, to receive the diagnosis.

##### IF SWALLOWED

- Immediately call a POISON CENTER or doctor/physician.
- When a patient vomits, don't swallow vomit. Lie face-down or on the left side and secure an airway.

#### 5 Fire-fighting measures;

##### Suitable extinguishing media

Water [ - ] Carbon dioxide [ O ] Foam [ O ] Dry chemical [ O ] Dry sand [ O ]

##### Specific hazards arising from the chemical

May product harmful fumes if burning.

##### Specific protective actions for fire-fighters

- Wear appropriate protectors (such as heat-resistant clothes).
- Move any combustible materials away from the fire.
- Keep an appropriate fire extinguisher at the ready to guard against ignition.
- Do not over water.

#### 6 Accidental release measures;

##### Personal precautions, protective equipment and emergency procedures

- Wear protective gloves/eye protection/face protection.
- When the leakage is made to leave plenty personnel from the area, moving to windward.

##### Environmental precautions

- Prevent the inflow rivers, such as water pipes to any available means, you do not want to cause damage to the environment.
- If the cause pollution in rivers and water pipes etc., please contact the relevant organizations.

##### Methods and materials for containment and cleaning up

- Remove any nearby ignition or heat sources and combustible materials.
- Keep an appropriate fire extinguisher at the ready to guard against ignition.
- The outflow of mass enclosed in the embankment to prevent leakage.
- For recovery, use tools made of materials such as would not produce sparks on impact or due to static electricity.
- Put the leakage into an gastight container and move it to a safe place.
- Dispose of any adhered substance and wastes in accordance with the related laws and regulations.



## 10 Stability and reactivity;

### Chemical stability

- Reactions at high temperatures
- Cause reaction on contact with water
- Cause reaction on contact with acids, alkali

### Conditions to avoid

- Heating or contact with incompatible materials

### Incompatible materials

- Strong oxidizing agents, powdered metals, amines, moisture

### Hazardous decomposition products

- Harmful gas is generated

## 11 Toxicological information

### Acute toxicity

Oral The acute toxicity of a mixture according to the GHS.  
Category - (Not classified.)

Skin The acute toxicity of a mixture according to the GHS.  
Category - (Not classified.)

Inhalation(vapor) The acute toxicity of a mixture according to the GHS.  
Category Exempt classification.

Inhalation(gas) The acute toxicity of a mixture according to the GHS.  
Category - (Not classified.)

Inhalation(mist) The acute toxicity of a mixture according to the GHS.  
Category Exempt classification.

### Skin corrosion/irritation

Wear protective gloves.

To inspect the skin prior to use, keep all wounds properly protected.

The skin corrosion or irritation of a mixture according to the GHS.

Category 2 (Causes skin irritation.)

- Wash thoroughly after handling.
- Wear protective gloves.

### Serious eye damage/irritation

The serious eye damage and irritation of a mixture according to the GHS.

Category 2A (Causes serious eye irritation.)

- Wear protective eye protection/face protection.

### Respiratory/Skin sensitizer

The respiratory and skin sensitizer of a mixture according to the GHS.

Category - (Not classified.)

### Germ cell mutagenicity

The germ cell mutagenicity of a mixture according to the GHS.

Category - (Not classified.)

### Carcinogenicity

The carcinogenicity of a mixture according to the GHS.

Category 2

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.

#### Toxic to reproduction

The toxic to reproduction of a mixture according to the GHS.

Category 1B (May damage fertility or the unborn child.)

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.

#### Specific target organ system toxicity following single exposure

The specific target organ system toxicity following single exposure of a mixture according to the GHS.

Category 1

Causes damage to organs...

[liver,kidney,respiratory organ,central nervous system]

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Do not eat, drink or smoke when using this product.
- Wash a hand after the handling.

Category 3

May cause respiratory irritation or May cause drowsiness or dizziness.

[respiratory tract,anesthesia]

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.

#### Specific target organ system toxicity following repeated exposure

The specific target organ system toxicity following repeated exposure of a mixture according to the GHS.

Category 1

Causes damage to organs...through prolonged or repeated exposure.

[nervous system,respiratory organ]

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Do not eat, drink or smoke when using this product.
- Wash a hand after the handling.

Category 2

May cause damage to organs...through prolonged or repeated exposure.

[auditory organs]

- Do not breathe dust/fume/gas/mist/vapors/spray.

#### Aspiration hazard

The aspiration hazard of a mixture according to the GHS.

Category - (Not classified.)

## 12 Ecological information

#### Aquatic toxicity (acute)

The aquatic toxicity of a mixture according to the GHS.

Category 1 (Very toxic to aquatic life.)

- Avoid release to the environment.

#### Aquatic toxicity (long-term)

The aquatic toxicity of a mixture according to the GHS.

Category 3 (Harmful to aquatic life with long lasting effects.)

- Avoid release to the environment.

#### Hazard to the ozone layer

Category - (Not classified.)

### 13 Disposal considerations;

#### The remainder waste

- Container and apparatus wash water should not be discharged direct to the ground or to a drain ditch.
- Wastes produced by effluent treatment or incineration should be disposed of in accordance with the related laws and regulations.
- Diatomite etc. are made for them to adsorb the waste paint etc. when the incineration processing is done and it incinerates little by little in open type's incinerator.
- If the incineration of waste, please use the incinerator with washing facilities.

#### Pollution container and packing

- The waste should be disposed of under a contract with an authorized industrial waste disposal company.

### 14 Transport information;

UN-number	1263	UN-proper shipping name	PAINT or PAINT RELATED MATERIAL
UN-class	Class 3 (flammable liquid)		
Packing group	II		

#### Special safety measures

- Common Following the description of the notes section on the handling and storage.  
Be sure that there is no leakage in a container, make sure to prevent load shifting.

### 15 Regulatory information

- Please manage based on the domestic legal system.

### 16 Other information

#### Main references cited

- Japanese Paint Manufacturers Association editing "Database for paint".
- Handbook of solvent.
- ACCIH: Threshold Limit Values for Chemical substances and Physical Agents
- "Guidebook for SDS-label making" which Japan Paint Manufacturers Association edited for GHS [For the mixture (for paint)] Revised second edition.
- NITE (product evaluation technology base mechanism) offer GHS classification result DB.

### 17 Notes

- The contents described in " Safety Data Sheet", but has been prepared on the basis of currently available materials, information, and data may be revised by amendment of the law and new knowledge.
- When handling this product, please take security measures adapted to the reality and responsibility of the user in reference to the contents listed.
- This data sheet is no guarantee of safety and quality.

Issued 5-Jul-10  
 Amended 25-Apr-17  
 SDS No. 52050500100

## Safety Data Sheet

### 1 Identification;

Product Name **NX 505-001 Eggshell Gloss Makino Navy Blue**  
 Product explanation type **URETHANE COATING/BASE RESIN**  
 Intended Use **Industrial coating for metal and plastics**  
 Company name **Edogawagosei Co., Ltd.**  
 Address **84-2 Singo Higashimatsuyama-shi Saitama, Japan**  
 Department in charge **Technical division**  
 Phone **81-493-26-0781**  
 Fax **81-493-26-0786**  
 Emergency number **81-493-26-0781**

### 2 Hazard identification

#### Symbols



#### Signal word

**DANGER**

Hazard class(GHS chapter)	Category	Physical hazard statements
Flammable liquids	2	High flammable liquid and vapor
Acute toxicity Oral	-	Not classified.
Skin	-	Not classified.
Inhalation/Gases	-	Not classified.
Inhalation/Vapors	-	Not classified.
Inhalation/Dust, Mist	-	Not classified.
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/eye irritation	2A	Causes serious eye irritation.
Respiratory sensitization	-	Not classified.
Skin sensitization	-	Not classified.
Germ cell mutagenicity	-	Not classified.
Carcinogenicity	2	Suspected of causing cancer.
Toxic to reproduction	1B	May damage fertility or the unborn child.
Specific target organ system toxicity single exposure	1	Causes damage to organs... [liver,kidney,respiratory organ,central nervous system]
Specific target organ system toxicity repeated exposure	1	Causes damage to organs...through prolonged or repeated exposure. [nervous system,respiratory organ]
Aspiration hazard	-	Not classified.
Acute hazards to the aquatic environment	1	Very toxic to aquatic life.
Long-term hazards to the aquatic environment	3	Harmful to aquatic life with long lasting effects.
Hazard to the ozone layer	-	Not classified.

### 3 Composition/information on ingredients;

Distinction of a single product-mixture: mixture

Ingredients	CAS No.	contents(%)	note
ethylbenzene	100-41-4	11.6%	
xylene	1330-20-7	11.6%	
Isobutyl acetate	110-19-0	6.5%	
n-butyl acetate	123-86-4	5.2%	
titanium dioxide	13463-67-7	5.0%	
carbon black	1333-86-4	1.2%	
C.I.Pigment Blue 15	147-14-8	0.7%	
styrene	100-42-5	0.2%	
1-methyl-2-pyrrolidone	872-50-4	0.2%	

#### 4 First-aid measures;

##### IF IN EYES:

- Immediately rinse your eyes under clean running water for at least 15 minutes.
- By lifting the upper and lower eyelids, make a complete cleaning of the eye.
- Remove contact lenses, if present and easy to do.
- Immediately call a POISON CENTER or doctor/physician if you feel unwell.

##### IF ON SKIN:

- Immediately wipe the product off your skin with a cloth.
- Wash away the matter thoroughly with water and soap or a with skin cleaning detergent.
- If the contacted skin changes in appearance or gives you pain, consult a doctor.

##### IF INHALED:

- If a vapor or gas is inhaled in large amounts, immediately move to a clean place for a breath of fresh air and take a rest, keeping yourself warm.
- Care should be taken so that anything thrown up may not be swallowed.
- In case of suffocation, artificial respiration should be practiced.
- To perform (CPR) cardiopulmonary resuscitation if necessary.
- SDS and labels are shown in the physician, to receive the diagnosis.

##### IF SWALLOWED

- Immediately call a POISON CENTER or doctor/physician.
- When a patient vomits, don't swallow vomit. Lie face-down or on the left side and secure an airway.

#### 5 Fire-fighting measures;

##### Suitable extinguishing media

Water [ - ] Carbon dioxide [  ] Foam [  ] Dry chemical [  ] Dry sand [  ]

##### Specific hazards arising from the chemical

May product harmful fumes if burning.

##### Specific protective actions for fire-fighters

- Wear appropriate protectors (such as heat-resistant clothes).
- Move any combustible materials away from the fire.
- Keep an appropriate fire extinguisher at the ready to guard against ignition.
- Do not over water.

#### 6 Accidental release measures;

##### Personal precautions, protective equipment and emergency procedures

- Wear protective gloves/eye protection/face protection.
- When the leakage is made to leave plenty personnel from the area, moving to windward.

##### Environmental precautions

- Prevent the inflow rivers, such as water pipes to any available means, you do not want to cause damage to the environment.
- If the cause pollution in rivers and water pipes etc., please contact the relevant organizations.

##### Methods and materials for containment and cleaning up

- Remove any nearby ignition or heat sources and combustible materials.
- Keep an appropriate fire extinguisher at the ready to guard against ignition.
- The outflow of mass enclosed in the embankment to prevent leakage.
- For recovery, use tools made of materials such as would not produce sparks on impact or due to static electricity.
- Put the leakage into an gastight container and move it to a safe place.
- Dispose of any adhered substance and wastes in accordance with the related laws and regulations.



## 7 Handling and storage:

### Precautions for safe handling

- Handle the product in a well-ventilated place.
- Completely seal the container after closing it.
- Do not use any heat sources or spark-producing devices nearby.
- To guard against static electricity, short the equipment to ground and use only explosion proof (increased safety type) electric apparatus.
- Immerse the used rags and spray cans in water until they are disposed of.
- If it touches the skin, the mucous membrane or clothes, and so as not to catch one's eye, the protective equipment is worn.
- After handling, neither the hand nor the face, etc. wash well, and bring the pollution protection tool such as gloves in to the rest room etc.
- When handling the product in an enclosed space, furnish an appropriate local exhaust and wear an appropriate protectors.
- Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibility

- Mixed with an oxidizing agent storage is prohibited.
- Protect from sunlight. Keep cool.
- Store in a closed container.
- Keep away from heat.

## 8 Exposure controls/personal protection

### Exposure limit values

Chemical name	CAS No.	contents(%)	ACGIH2002 TWA
ethylbenzene	100-41-4	11.6%	20 ppm
xylene	1330-20-7	11.6%	100 ppm
Isobutyl acetate	110-19-0	6.5%	—
n-butyl acetate	123-86-4	5.2%	—
titanium dioxide	13463-67-7	5.0%	—
carbon black	1333-86-4	1.2%	3.5 mg/m <sup>3</sup>
C.I.Pigment Blue 15	147-14-8	0.7%	—
styrene	100-42-5	0.2%	20 ppm
1-methyl-2-pyrrolidone	872-50-4	0.2%	1 ppm

### Facility and equipment measures

- Use equipment of the explosion proof type.
- Equipment to seal the source of the steam, or providing a local exhaust ventilation.
- Safety shower, restroom, providing a place near an eyewash facility handling.
- Steam to prevent the retention device is installed exhaust

### Personal protective equipment

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Wear protective gloves/protective clothing/eye protection.
- For electrostatic coating, wear current-carrying shoes.
- Do not eat, drink or smoke when using this product.

## 9 Physical and chemical properties:

Appearance	:	Liquid	Color	:	Blue
Odor	:	Solvent odor	pH	:	—
Melting point	:	— °C	Freezing point	:	— °C
Initial boiling point	:	118.0 °C	Flash point	:	22.0 °C
Auto-ignition point	:	344.0 °C	Density	:	—
Explosive limit (upper)	:	15.0 %	Explosive limit (lower)	:	1.1 %
Vapor pressure	:	3800(20°C) Pa	Solubility	:	Insoluble
Partition coefficient:n-octanol/water	:	—	Viscosity	:	— mm <sup>2</sup> /s

## 10 Stability and reactivity;

### Chemical stability

- Reactions at high temperatures
- Cause reaction on contact with acids, alkali

### Conditions to avoid

- Heating or contact with incompatible materials

### Incompatible materials

- Strong oxidizing agents, amines

### Hazardous decomposition products

- Harmful gas is generated

## 11 Toxicological information

### Acute toxicity

Oral The acute toxicity of a mixture according to the GHS.

Category - (Not classified.)

Skin The acute toxicity of a mixture according to the GHS.

Category - (Not classified.)

Inhalation(vapor) The acute toxicity of a mixture according to the GHS.

Category - (Not classified.)

Inhalation(gas) The acute toxicity of a mixture according to the GHS.

Category - (Not classified.)

Inhalation(mist) The acute toxicity of a mixture according to the GHS.

Category - (Not classified.)

### Skin corrosion/irritation

Wear protective gloves.

To inspect the skin prior to use, keep all wounds properly protected.

The skin corrosion or irritation of a mixture according to the GHS.

Category 2 (Causes skin irritation.)

- Wash thoroughly after handling.
- Wear protective gloves.

### Serious eye damage/irritation

The serious eye damage and irritation of a mixture according to the GHS.

Category 2A (Causes serious eye irritation.)

- Wear protective eye protection/face protection.

### Respiratory/Skin sensitizer

The respiratory and skin sensitizer of a mixture according to the GHS.

Category - (Not classified.)

### Germ cell mutagenicity

The germ cell mutagenicity of a mixture according to the GHS.

Category - (Not classified.)

### Carcinogenicity

The carcinogenicity of a mixture according to the GHS.

Category 2

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.

#### Toxic to reproduction

The toxic to reproduction of a mixture according to the GHS.

Category 1B (May damage fertility or the unborn child.)

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.

#### Specific target organ system toxicity following single exposure

The specific target organ system toxicity following single exposure of a mixture according to the GHS.

Category 1

Causes damage to organs...

[liver,kidney,respiratory organ,central nervous system]

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Do not eat, drink or smoke when using this product.
- Wash a hand after the handling.

Category 3

May cause respiratory irritation or May cause drowsiness or dizziness.

[anesthesia]

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.

#### Specific target organ system toxicity following repeated exposure

The specific target organ system toxicity following repeated exposure of a mixture according to the GHS.

Category 1

Causes damage to organs...through prolonged or repeated exposure.

[nervous system,respiratory organ]

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Do not eat, drink or smoke when using this product.
- Wash a hand after the handling.

Category 2

May cause damage to organs...through prolonged or repeated exposure.

[auditory organs]

- Do not breathe dust/fume/gas/mist/vapors/spray.

#### Aspiration hazard

The aspiration hazard of a mixture according to the GHS.

Category - (Not classified.)

## 12 Ecological information

#### Aquatic toxicity (acute)

The aquatic toxicity of a mixture according to the GHS.

Category 1 (Very toxic to aquatic life.)

- Avoid release to the environment.

#### Aquatic toxicity (long-term)

The aquatic toxicity of a mixture according to the GHS.

Category 3 (Harmful to aquatic life with long lasting effects.)

- Avoid release to the environment.

#### Hazard to the ozone layer

Category - (Not classified.)

### 13 Disposal considerations;

#### The remainder waste

- Container and apparatus wash water should not be discharged direct to the ground or to a drain ditch.
- Wastes produced by effluent treatment or incineration should be disposed of in accordance with the related laws and regulations.
- Diatomite etc. are made for them to adsorb the waste paint etc. when the incineration processing is done and it incinerates little by little in open type's incinerator.
- If the incineration of waste, please use the incinerator with washing facilities.

#### Pollution container and packing

- The waste should be disposed of under a contract with an authorized industrial waste disposal company.

### 14 Transport information;

UN-number	1263	UN-proper shipping name	PAINT or PAINT RELATED MATERIAL
UN-class	Class 3 (flammable liquid)		
Packing group	II		

#### Special safety measures

- Common Following the description of the notes section on the handling and storage.  
Be sure that there is no leakage in a container, make sure to prevent load shifting.

### 15 Regulatory information

- Please manage based on the domestic legal system.

### 16 Other information

#### Main references cited

- Japanese Paint Manufacturers Association editing "Database for paint".
- Handbook of solvent.
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Issued 5-Jul-10  
 Amended 18-Jan-17  
 SDS No. 52050900100

## Safety Data Sheet

### 1 Identification;

Product Name **NX 509-001 Eggshell Gloss Makino Snow White**  
 Product explanation type **URETHANE COATING/BASE RESIN**  
 Intended Use **Industrial coating for metal and plastics**  
 Company name **Edogawagosei Co., Ltd.**  
 Address **84-2 Singo Higashimatsuyama-shi Saitama, Japan**  
 Department in charge **Technical division**  
 Phone **81-493-26-0781**  
 Fax **81-493-26-0786**  
 Emergency number **81-493-26-0781**

### 2 Hazard identification

#### Symbols



#### Signal word

**DANGER**

Hazard class(GHS chapter)	Category	Physical hazard statements
Flammable liquids	2	High flammable liquid and vapor
Acute toxicity Oral	-	Not classified.
Skin	-	Not classified.
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Serious eye damage/eye irritation	2A	Causes serious eye irritation.
Respiratory sensitization	-	Not classified.
Skin sensitization	-	Not classified.
Germ cell mutagenicity	-	Not classified.
Carcinogenicity	2	Suspected of causing cancer.
Toxic to reproduction	1B	May damage fertility or the unborn child.
Specific target organ system toxicity single exposure	1	Causes damage to organs... [liver,kidney,respiratory organ,central nervous system]
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Aspiration hazard	-	Not classified.
Acute hazards to the aquatic environment	1	Very toxic to aquatic life.
Long-term hazards to the aquatic environment	3	Harmful to aquatic life with long lasting effects.
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### 3 Composition/information on ingredients;

Distinction of a single product-mixture: mixture

Ingredients	CAS No.	contents(%)	note
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ethylbenzene	100-41-4	10.6%	
xylene	1330-20-7	10.6%	
Isobutyl acetate	110-19-0	6.7%	
n-butyl acetate	123-86-4	4.0%	
styrene	100-42-5	0.2%	

#### 4 First-aid measures;

##### IF IN EYES:

- Immediately rinse your eyes under clean running water for at least 15 minutes.
- By lifting the upper and lower eyelids, make a complete cleaning of the eye.
- Remove contact lenses, if present and easy to do.
- Immediately call a POISON CENTER or doctor/physician if you feel unwell.

##### IF ON SKIN:

- Immediately wipe the product off your skin with a cloth.
- Wash away the matter thoroughly with water and soap or a with skin cleaning detergent.
- If the contacted skin changes in appearance or gives you pain, consult a doctor.

##### IF INHALED:

- If a vapor or gas is inhaled in large amounts, immediately move to a clean place for a breath of fresh air and take a rest, keeping yourself warm.
- Care should be taken so that anything thrown up may not be swallowed.
- In case of suffocation, artificial respiration should be practiced.
- To perform (CPR) cardiopulmonary resuscitation if necessary.
- SDS and labels are shown in the physician, to receive the diagnosis.

##### IF SWALLOWED

- Immediately call a POISON CENTER or doctor/physician.
- When a patient vomits, don't swallow vomit. Lie face-down or on the left side and secure an airway.

#### 5 Fire-fighting measures;

##### Suitable extinguishing media

Water [ — ] Carbon dioxide [ ○ ] Foam [ ○ ] Dry chemical [ ○ ] Dry sand [ ○ ]

##### Specific hazards arising from the chemical

May product harmful fumes if burning.

##### Specific protective actions for fire-fighters

- Wear appropriate protectors (such as heat-resistant clothes).
- Move any combustible materials away from the fire.
- Keep an appropriate fire extinguisher at the ready to guard against ignition.
- Do not over water.

#### 6 Accidental release measures;

##### Personal precautions, protective equipment and emergency procedures

- Wear protective gloves/eye protection/face protection.
- When the leakage is made to leave plenty personnel from the area, moving to windward.

##### Environmental precautions

- Prevent the inflow rivers, such as water pipes to any available means, you do not want to cause damage to the environment.
- If the cause pollution in rivers and water pipes etc., please contact the relevant organizations.

##### Methods and materials for containment and cleaning up

- Remove any nearby ignition or heat sources and combustible materials.
- Keep an appropriate fire extinguisher at the ready to guard against ignition.
- The outflow of mass enclosed in the embankment to prevent leakage.
- For recovery, use tools made of materials such as would not produce sparks on impact or due to static electricity.
- Put the leakage into an gastight container and move it to a safe place.
- Dispose of any adhered substance and wastes in accordance with the related laws and regulations.



## 10 Stability and reactivity:

### Chemical stability

- Reactions at high temperatures
- Cause reaction on contact with acids, alkali

### Conditions to avoid

- Heating or contact with incompatible materials

### Incompatible materials

- Strong oxidizing agents, amines

### Hazardous decomposition products

- Harmful gas is generated

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Category - (Not classified.)

Inhalation(gas) The acute toxicity of a mixture according to the GHS.

Category - (Not classified.)

Inhalation(mist) The acute toxicity of a mixture according to the GHS.

Category - (Not classified.)

### Skin corrosion/irritation

Wear protective gloves.

To inspect the skin prior to use, keep all wounds properly protected.

The skin corrosion or irritation of a mixture according to the GHS.

Category 2 (Causes skin irritation.)

- Wash thoroughly after handling.
- Wear protective gloves.

### Serious eye damage/irritation

The serious eye damage and irritation of a mixture according to the GHS.

Category 2A (Causes serious eye irritation.)

- Wear protective eye protection/face protection.

### Respiratory/Skin sensitizer

The respiratory and skin sensitizer of a mixture according to the GHS.

Category - (Not classified.)

### Germ cell mutagenicity

The germ cell mutagenicity of a mixture according to the GHS.

Category - (Not classified.)

### Carcinogenicity

The carcinogenicity of a mixture according to the GHS.

Category 2

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.



#### Toxic to reproduction

The toxic to reproduction of a mixture according to the GHS.

Category 1B (May damage fertility or the unborn child.)

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.

#### Specific target organ system toxicity following single exposure

The specific target organ system toxicity following single exposure of a mixture according to the GHS.

Category 1

Causes damage to organs...

[liver,kidney,respiratory organ,central nervous system]

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Do not eat, drink or smoke when using this product.
- Wash a hand after the handling.

Category 3

May cause respiratory irritation or May cause drowsiness or dizziness.

[anesthesia]

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.

#### Specific target organ system toxicity following repeated exposure

The specific target organ system toxicity following repeated exposure of a mixture according to the GHS.

Category 1

Causes damage to organs...through prolonged or repeated exposure.

[nervous system,respiratory organ]

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Do not eat, drink or smoke when using this product.
- Wash a hand after the handling.

Category 2

May cause damage to organs...through prolonged or repeated exposure.

[auditory organs]

- Do not breathe dust/fume/gas/mist/vapors/spray.

#### Aspiration hazard

The aspiration hazard of a mixture according to the GHS.

Category - (Not classified.)

## 12 Ecological information

#### Aquatic toxicity (acute)

The aquatic toxicity of a mixture according to the GHS.

Category 1 (Very toxic to aquatic life.)

- Avoid release to the environment.

#### Aquatic toxicity (long-term)

The aquatic toxicity of a mixture according to the GHS.

Category 3 (Harmful to aquatic life with long lasting effects.)

- Avoid release to the environment.

#### Hazard to the ozone layer

Category - (Not classified.)

