

Product safety data seat(SDS)

Curing agent -1 **D42 curing agent**

1. Chemical substance and company information

Name such as chemical subst Tough court D42 curing agent

Company name : Industry Ltd. Of arbar

Address: Osaka Prefecture Neyagwasi Horimizo2-10-1

Charge section: Development room

Manufacturer and Manabu Ishikawa

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2. The dangerous hazard's summary

【 GHS classification 】

Inflammable fluid		:Division 2
Acute toxicity	Oral	:Division 5
	Permeation	:Outside division
	Inhalation(gas)	:Division 3
	(steam)	:Division 3
	(dust and mist)	:Outside division
Skin corrosiveness/stimulation		:Division 2
Eye damage/stimulation		:Division 2A
Respiratory organ sensitization		:It is not possible to classify it.
Skin sensitization		:It is not possible to classify it.
Generative cell mutagenicity		:It is not possible to classify it.
Carcinogenicity		:It is not possible to classify it.
Reproductive toxicity		:Division 1A
Influence through suckling to suckling		:It is not possible to classify it.
Specific target internal organs/whole body toxicity(sir)		:Division 1
Specific target internal organs/whole body toxicity(re)		:Division 1
Sucked respiratory organ hazard		:It is not possible to classify it.
Aquatic hazard assessment(acute)		:Division 3
Aquatic hazard assessment(chronicity)		:It is not possible to classify it.

【 GHS label element 】

“Picture display”

“Attention rousing word”: Danger

“Hazard and toxicity information”



·Inflammable fluid and steam

·Cutaneous stimulus

·Strong eye stimulation

·Fear of genetic disease

·Fear of carcinogenesis

·Fear of adverse effect on reproductive potential or embryo

·Trouble of internal organs

·Trouble of internal organs because of a long term or repetition exposure

·It is toxicity in hydrobios.

·It is toxicity in hydrobios according to a long-term influence.

“Disclaimer”

《 preventive plan 》

1. Please use it in the place where the limited part exhaust system without the following was installed.
2. Please inhale neither ventilation Oyo spit nor steam while drying while painting.
3. It is made not to touch the skin, and it is a gas mask, and an air-supplied respirator if necessary for the organic gas while handling it.

Please wear working clothe of the hood, the protection glasses, and the long sleeve, the collar rolling towels, and the protective gloves, etc.

4. Wess, paints garbage, and the spray duct, that adhere to paints to water until abandoning it.

Please put it.

5. Please keep it in the container where it wipes off with the cloth when it spills from the container and water was put.
6. Please do the washroom and gargle enough after handling.
7. Please do the lid, and store it well in the place of 40° C or less.
8. Please keep it in the place where child's hand doesn't reach.

9. Please do not use it except an original usage.

《 emergency measure 》

1. With carbon dioxide, bubble or powdery fire extinguisher at a fire
2. It washes promptly in a large amount of soapy water when adhering to the skin, it drops, and it changes into the pain or externals.

Please receive the doctor's examination at.

3. Please wash with bags of water when catching one's eye, and receive the doctor's examination as soon as possible.
4. It makes to the rest when steam and the gas, etc. are inhaled and it becomes unpleasant, and the doctor's diagnosis is received.

Please give to me.

《 abandonment 》

Please process it as a waste product when you abandon it.

3. Composition and element information

Division of single compound and compound: Compound

The element and the density (It is an object as for the dangerous hazard material):

Element name	Cas No.	Contents	
Polyisocyanate	822-06-0	40%	
Xylene	1330-20-7	27%	
Propylene glycol ether Acetate	108-65-6	10%	
Ethyl benzen	100-41-4	23	

4. Emergency measures

When inhaling

- It moves to a fresh place of air at once when a large amount of steams and gases, etc. are inhaled, and it makes it to the rest as it is warm.

It practices artificial respiration when breath stops irregularly.

The vomiting thing doesn't swallow. Receive the doctor's diagnosis at once.

- It makes to the rest in a clean place of air when steam and the gas, etc. are inhaled and it becomes unpleasant, and the doctor.

Receive the diagnosis.

When adhering to the skin

- The fouling is quickly wiped off with the cloth.
- It washes enough in using volumes of water, soap or the detergent for the skin and it drops. Use neither solvent nor thinner.
- Receive the doctor's diagnosis when the change is seen in externals or there is a pain.

When catching one's eye

- 15 parts or more of a clean a large amount of at once stream are washed. Wash back of the eyelid completely.
- Receive the doctor's diagnosis as fast as possible.

When swallowing

- Make to the rest when swallowing by mistake and receive the doctor's diagnosis at once.
 - The vomiting thing must not swallow.
 - Do not vomit things except dependence on the doctor's instruction without permission.
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5. Measures at a fire

Fire suppressant that can be used: Carbon dioxide, bubble, powder, and dry sand

Digestion method:

- Do not use water to extinguish fire.
 - An appropriate protection tool (heat tolerance clothes) is worn.
 - Remove the thing of combustibility from surroundings fast.
 - Use a specified fire suppressant.
 - The airtight container exposed to the high temperature cools water putting it.
 - The fire fighting is done from the windward.
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6. Measures when leaking

- When working, an appropriate protection tool (gloves, protective mask, apron, and goggle, etc.) is worn.
- The leakage thing is collected to the container that can be sealed and moved to the place of safety.
- It absorbs to the one that the dry sand, the soil, and is nonflammable additionally and it collects it.

Enclose to a large amount of leakage with the fill and the leakage

It prevents it.

- A near ignition source, the high temperature body, and the combustible are removed fast.
 - An appropriate fire extinguisher is prepared in preparation for the igniting case.
 - It collects it with tools of the material where the spark is not generated by the impact and static electricity.
 - Process the fouling and waste, etc. based on related regulations.
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7.Attention in handling and keeping

Attention in handling:

- It handles it in the place where ventilation is good.
- The container closely stops it in every case.
- The fire, the spark, and the use of the high temperature thing are prohibited in the surrounding.
- The device etc. are grounded for the static electricity measures, and the electric apparatus uses the explosion proof (safety Increase type).
- The tool uses the one of the spark prevention type.
 - Soak, used Wess, paints garbage, and the spray duct, etc. to water until annulling it.
- The uniform and shoes of the electrification prevention type are used while working.
- It touches the skin, the mucous membrane or clothes, and so as not to catch one's eye, an appropriate protection tool is worn.
- Do not often wash your the hand and face, etc. , and do not bring the pollution protection tool such as gloves in to the rest room etc. after handling.
- An enough limited part exhaust system is installed in work in the sealed place, and an appropriate protection tool is worn. Work.

It notes it in keeping.

- Firing sunlight directly is avoided, and it keeps it in the merit of ventilation.
 - It keeps away from the fire and the heat source and it keeps it.
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8.Exposure prevention and protection measures

Facility measures:

- Handling equipment uses the explosion proof.
- Steam is prevented from staying putting up the exhaust system.
- Transport the liquid, take into consideration, and equip about the device of the stir etc. to take the earth.
- It is equipped so that the one that becomes the high temperature and an ignition source is not put near the handling place.
- Do you make it to the facility from which the worker is not exposed directly as the automatic painting machine is used for the indoor painting operation?

Make it to the facility that the worker is avoided from the exposure with the limited part exhaust system etc.

- Thing to install device that can be ventilated enough to sealing up place, especially to bottom when working in place of sealing up in tank etc.

Install the device.

Managem	Material name	Management	ACGIH(TLV-TWA)
	Xylene	100ppm	100ppm
	Ethyl benzen		20ppm

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Protection tool

Protection tool of breath system:

- The gas mask for the organic gas is worn.
- The air-supplied respirator is worn in the sealed place.

Protection tool of hand:

- Gloves of the material that the organic solvent or the chemical doesn't infiltrate are worn.

Protective eyewear:

- The eye shield is worn.

Protection tool of skin and body:

- The protection tool from which the skin is not exposed directly is worn if necessary.

Other protection tools:

- When the electrostatic painting is done, the energizing shoes are worn.
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9. Physics and chemistry

Externals	Physical condition	
	Color	Specified color
	Odor	Characteristic odor
	PH-value	7~8
	Flash point(°C)	27°C
	Explosion characteristic(love	2%
	Density(20°C g/cm ³)	0.95

10. Stability and reactivity

Stability: It stabilizes High temperature and heating

Condition that should be avoided: Heating high temperature

Material that should be avoided: Finding none

Deleterious degradation product: Finding none

11. Hazard information

Acute tox	Xylene	LD50 (oral)	3500mg/Kg
	Propylene glycol methylic Ether acetate	LD50 (oral)	8532
	Ethyl benzen	"	3500mg/kg

12.Environmental impact information:

·Handling is noted because it might influence the environment when leaking and exhausting it.
Especially, oppose it so that neither the product nor wash water may flow directly to ground, the river, and the drainage ditch.

13.Attention in abandonment

- The wastes such as the abolition paints and containers processed the industrial waste disposal trader and the consignment contract to obtain permission.
- Do not throw drain etc. that clean the container and the equipment device, etc. to ground and the drainage ditch as it is.
- About the waste generated by wastewater disposal and incineration, etc. , the Wastes Disposal and Public Cleaning Law.

Process according to the relating regulations or consign it.

- The incinerator with an appropriate cleaning device because the noxious gas is generated when the abolition paints etc. are incinerated and processed
- Use it.

14.Attention in transportation

Land-based transportation: Place where transportation of law is provided when corresponding to Fire Defense Law, Industrial Safety and Health Law, and poison method follow it.

Maritime transport: According to providing in Law for Safety of Vessels

Air transportation: Aviation law provides

The United Nations classification number: 1866 classes 3-3(inflammable fluid) Packing Group III

Specific safety measure and condition of transportation

- According to items mentioned of paragraph of attention in handling and keeping
- It loads, and the collapse of cargo piles prevention is certain so that it is confirmed that the container doesn't leak,

falls, it falls, and there is no damage. ... do.

15.Application law

- Industrial Safety and Health Article 57 name display material: Xylene 50%
Dangerous goods (thing of flammability) and organic rule
(the second kind organic solvent etc.): Xylene 50%
 - Fire Defense Law: The fourth kind second oil(non-water soluble)
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16.Extra information

Literature cited etc Material data base for SDS (for painting) Japan Paint Industry Association Catayo Corp.
SDS making guide book 【 compound (for paints)】"Japan Paint Industry Association Corp."
Solvent pocket book (organic synthesis and chemistry society Catayo)

Additional remark:

- SDS this is summary, and one in conciseness intended for usual handling as for the matter that should be necessary, and noted to use our company's products properly.

It is a summary to concise, and the one intended for usual handling.

- It is dangerous and a hazard though the items mentioned is made based on material, information, and the data acquired now.

The evaluation that concerns is not necessarily enough, and note handling enough, please.

- This SDS revises the law, and there is a thing revised without a previous notice according to a new finding.
- Though SDS is this one based on the standard of Japan Paint Industry Association Corp. including the state regulation

Restriction information on the local government is not included, and deal according to the restriction of this municipality concerned, please.