

SAFETY DATA SHEET (SDS)

Date of preparation 2017/05/11

1. Chemical Product and Company Identification

Reference No. ARY105

Product Name LIBRE-CR PR-D Clear RN

Manufacture's name NATOCO CO.,LTD

Address 18 Shougayama,Uchikoshi-cho,Miyoshi City,Aichi pref,Japan

Department in Charge Quality Control Group, Quality Assurance Department

Classification Water solved silicone acrylic resin paint

Use For inorganic exterior materials

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2. Hazards Identification**【GHS Classification】**

Flammable liquids	Not Classifiable
Acute toxicity Oral	Not Classifiable
Dermal	Not Classifiable
Inhalation (gas)	Not Classifiable
Inhalation (vapours)	Not Classifiable
Inhalation (dust,mist)	Not Classifiable
Skin corrosion/irritation	category 3
Serious eye damage/eye irritation	Not Classifiable
Sensitization Respiratory	Not Classifiable
Sensitization Skin	Not Classifiable
Germ Cell Mutarenicity	Not Classifiable
Carcinogenicity	Not Classifiable
Reproductive Toxicity	category 2
Specific target organs/systemic toxicity (Single exposure)	category 1 (blood , central nerve, liver, kidney) category 2 (Not Applicable) category 3 (respiratory tract irritation)
Specific target organs/systemic toxicity (Repeated exposure)	category 1 (Not Applicable) category 2 (blood)
Aspiration Hazard	Not Classifiable
Acute aquatic toxicity	category 3
Chronic aquatic toxicity	category 3
Hazardous to the ozone layer	Unclassifiable

【GHS Label Elements】**Danger****【Hazard Statements】**

Causes mild skin irritation
 Suspected of damaging fertility or the unborn child
 May cause respiratory irritation
 Harmful to aquatic life
 Harmful to aquatic life with long lasting effects
 Causes damage to organs
 Causes damage to organs through prolonged or repeated exposure

【Precautionary Statements】

<Prevention> Keep container tightly closed

Keep away from heat/sparks/open flames/hot surfaces. No smoking
 Use explosion-proof electrical/ventilating/lighting/tools equipment
 Do not eat, drink or smoke when using this product
 Wear protective gloves/eye protection/face protection
 Wash hands thoroughly after handling
 Avoid release to the environment

<Response> IF IN EYES

Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do.
 Continue rinsing.

IF SWALLOWED

Immediately call a POISON CENTER or doctor/physician.
 Rinse mouth.

IF ON SKIN

Rinse skin with water/shower.
 Remove/Take off immediately all contaminated clothing.

IF LEAKED

Collect spillage.

<Storage> Keep cool. Store in a well-ventilated place. Store locked up.

<Disposal> Dispose of contents/container to in accordance with local/regional/national/international.

3. Composition/Information on Ingredients

The identity of the substance or mixture mixture

Chemical Name or Common Name Water solved silicone acrylic resin paint

Ingredient	CAS No.	Quantity(%)	Note
Ammonia Solution	1336-21-6	0.1~1	
Ethylene glycol monobutyl ether	111-76-2	1~5	

4. First-aid Measures

IF IN EYES

Immediately wash eyes with enough water more than 15 minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Wash out completely with water inside of the eyelid.
 Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN

Immediately wipe off the adhesion thing by cloth.
 Wash out the adhesion thing with large quantities of water and soap or detergent for skin.
 Do not use a solvent, the thinner.
 Remove/Take off immediately all contaminated clothing.
 Get medical attention, when chage is seen at appearance or there is an ache.

IF INHALED

Practice artificial respiration if respiration is irregular or stop.
 Get medical advice/attention.
 If experiencing respiratory symptoms, Call a POISON CENTER or doctor/physician.

IF SWALLOWED

In case of swallow, keep rest and Get medical attention immediately.
 A vomiting thing is not made to swallow.

Personal Protective Equipment for first-aid Responders

Wear protective gloves/eye protection/face protection.
 Ventilation.

5. Fire-fighting Measures

The fire-extinguishing method Wear suitable protection implements (heat-resistant clothes etc.)
 Take off combustible
 Use the proper extinguisher.
 Keep containers cool with water spray
 Fight fire from upwind side.

Extinguishing media : CO2 Foam

Prohibited extinguishing media :

6. Accidental Release Measures

Personal precaution/protective equipment and emergency

- During working at the leakage site, wear rubber gloves, eye protection, and protective clothing surely.
- Keep people away from the leakage site by encircling it with a rope.
- Remove quickly the neighboring source of ignition, a high temperature object, and neighboring combustibles.
- Prepare a suitable fire extinguisher, when it lights.

Environmental precautions.

- Exercise caution so as not to drain the leaked product into rivers, etc.

Methods and Materials for Containment and Cleaning Up.

- Collect leakage thing into a container that can be sealed and move to safety place.
- Dispose the adhesion thing and wastate based on a statute.
- Use safety sparkless tool for collect released materials.
- Make it stick to the thing of dryness sand or soil other incombustibles, and collect.
- In case voluminous release, prevent to flow out enclosing by sand dam.

7. Handling and Storage

The cautions on handling

- Handle at well-ventilated place.
- Close a lid tightly at each time.
- Forbid to use fire, a spark, and high temperature thing.
- For the measure against static electricity, ground equipment etc. and use electric apparatus are prevent-explision type(increase of safety)
- Use safety sparkless tool.
- During work, put on electrification prevention type clothes and shoes.
- Wear a send air mask in the sealed gas.
- Wear appropriate protective equipment to prevent inhalation, and contact with eyes, and skin.
- Do not treat the person experiencing an allergic symptom in the past.
- Soak them in water, which are clothes, papers, rollers, etc. to which spray dust and the product.

The cautions on storage

- Avoid direct rays of sunlight.
- Keoo this to the place of good-ventilation.
- Keep away from fire or heat.

8. Exposure Controls/Personal Protection

Substance	Control Concentration	Threshold Limit Value	IARC	Other
Ammonia Solution		25ppm		350mg/kg
Ethylene glycol monobutyl ether	25ppm		3	530mg/kg(rat)

The measure against equipment

Eye protection

Wear protection glasses, when you handle.

Hand protection

Wear the glove which the organic solvent or chemicals does not permeate.

Skin and body protection

Wear protective gloves/eye protection/face protection.

Wear the glove which the organic solvent or chemicals does not permeate.

Respiratory protection

Respirator for organic solvent, such as dust mask, wear appropriate protective masks.

Wear a self air mask in the sealed place.

Others

Wear electric-conductive shoes at static electricity point.

9. Physical and Chemical Properties

Appearance:	Liquid
Colour:	Clear
Odour:	Odorless
pH:	9
Melting point/Freezing point:	No Data
Boiling point:	100°C
Flash point:	Nothing
Upper/lower flammability or explosive	No Data
Vapour pressure:	No Information
Vapour density:	No Information
Density:	1.04
Solubility:	Soluble in water
Partition coefficient: n-octanol/water:	No Data
Auto-ignition temperature:	No Information
Decomposition temperature:	No Information
Others:	Nothing

10. Stability and Reactivity

Chemical Stability

Not do the dangerous reaction in the normal temperature neighborhood.

Conditions to avoid

Nothing Special

Incompatible materials

Nothing special

Hazardous decomposition products

CO, NO_x, etc, generated by combustion.

Danger information on other

Nothing special

11. Toxicological Information

Ingredient	Acute toxicity				
	Oral	Dermal	Inhalation(gas)	Inhalation(vapours)	Inhalation(dusts,mists)
Ammonia Solution	category 4(350mg/Kg)	Unclassifiable	Not Applicable	Unclassifiable	Unclassifiable
Ethylene glycol monobutyl ether	category 4(470mg/Kg)	category 3(99mg/Kg)	Not Applicable	category 2(450ppm)	Unclassifiable

Ingredient	Skin corrosion/irritation	Serious eye damage/eye irritation	Sensitization Respiratory	Sensitization Skin	Germ Cell Mutarenicity	Carcinogenicity	Reproductive Toxicity
Ammonia Solution	category 1A-1C	category 1	Unclassifiable	Unclassifiable	Unclassifiable	Unclassifiable	Unclassifiable
Ethylene glycol monobutyl ether	category 2	category 2A	Unclassifiable	Not Classifiable	Not Classifiable	Not Classifiable	category 2

Ingredient	Specific target organs/systemic toxicity (Single exposure)
Ammonia Solution	category 2(respiratory organs)
Ethylene glycol monobutyl ether	category 1(central nerve,blood ,kidney,liver),category 3(respiratory tract irritation)

Ingredient	Specific target organs/systemic toxicity (Repeated exposure)
Ammonia Solution	category 2(respiratory organs)
Ethylene glycol monobutyl ether	category 2(blood)

Ingredient	Aspiration Hazard	Aquatic Environment Hazard(Acute Toxicity)	Aquatic Environment Hazard(Chronic Toxicity)	Hazardous to the ozone layer
Ammonia Solution	Unclassifiable	category 1	category 1	Unclassifiable
Ethylene glycol monobutyl ether	Unclassifiable	Not Classifiable	Not Classifiable	Unclassifiable

12. Ecological Information

Be careful of handling as there is a possibility of affecting environment in the cases, such as leakage and abandonment. Especially cope with so that the product and washing water may flow directly neither to the ground nor a river nor a drain.

13. Disposal Considerations

Remainder waste

About waste of the paint and containers, dispose the consignment contract of it to an industrial waste treatment company who obtained permission, Don't pour the drainage that washed a container, mashine equipment, etc.to the ground and drain.

Also dispose waste generated by effluent treatment, incineration, etc. according to Wastes Disposal and Public Cleaning Law and a related regulation, The disposal should be followed the official regulation concerned with management industrial waste in particular because of corresponding to a paint product, paint wastes,fire ash, and so on. Use an incinerator with proper removal equipment to occur in harmful gas when up waste.

Pollution container and packing

Dispose of the empty container after completely removing contents. About waste of the paint and containers, dispose the consignment contract of it to an industrial waste treatment company who obtained permission, and process it.

14. Transport Information

Follow the publication of the clause of the cautions on handling and storage.

Confirm that there is no container leak, load so that there are not tumble, fall, and damage, and ensure collapse-of-cargo-piles prevention.

Land transportation When the product correspond to Fire Service Law, Labor Safe Law, and hazardous,Materials Law, follow the transportation method set to each applicable regulation.

Marine transportation Follow to Law for Safety of Vessels.

Air transportation Follow to aviation Law.

U.N. number Not applicable IMDG code Not applicable

Response number Not applicable Container class Not applicable

15. Reguratory Information

Industrial Safety And Health Law

Dangerous object: Not Applicable

Organic rule:

Not Applicable

Ingredient: Ammonia Solution

Ethylene glycol monobutyl ether

Fire Service Law

Non-dangerous object

Pollutant Release and Transfer Register Law

Not Applicable

16. Other Information

Reference

Japan Paint Industry Association creation Substance database for MSDS

Chemical industry daily report company 13599 chemistry goods

Doctor Medicine Publication Industrial poisoning manual

All specification of this data sheet and to be created based on the information we can get at this time may be by new knowledge and information.

The data of this data sheet are not a guaranteed-performance.

Notes are usually aimed at handling.If special handling,usage,please confirm the safety measures in a user.