

DATE PREPARED: 20th January 2022

## SAFETY DATA SHEET

SDS No. 0457512005-4

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT NAME: PINECRYSTAL KR-610  
 NAME OF MANUFACTURER/SUPPLIER: Arakawa Chemical Industries, Ltd.  
 NAME OF SECTION: Onahama Plant Quality Control Section  
 ADDRESS: 399-5, Simokawa-Aza-Ooturugi, Izumi-machi, Iwaki-city,  
 Fukushima, 971-8183 Japan  
 TELEPHONE NUMBER: +81-246-56-7731 FAX NUMBER: +81-246-56-7739

2.HAZARD IDENTIFICATION

## CLASSIFICATION OF THE SUBSTANCE OR MIXTURE FOR SDS IN JAPAN:

PHYSICAL HAZARDS "Classification not possible" or "Not classified"  
 HEALTH HAZARDS "Classification not possible" or "Not classified"  
 ENVIRONMENTAL HAZARDS "Classification not possible" or "Not classified"

## GHS LABEL ELEMENTS FOR SDS IN JAPAN

HAZARD SYMBOLS : Not applicable  
 SIGNAL WORD : Not applicable  
 HAZARD STATEMENTS : Not applicable

## PRECAUTIONARY STATEMENTS:

Avoid contact with eyes and skin. Wear suitable respiratory, eyes and skin protection equipment.  
 Get medical attention immediately when required first-aid measures.  
 Wash hands with water and soap thoroughly after use.  
 Keep container tightly closed.  
 Disposing of this material / container according to local regulations.  
 Avoid dust formation.  
 Avoid inhaling dust and fumes.

## OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS : Flammable. Remove all sources of ignition.  
 Dust explosion hazard.

ADVERSE HUMAN HEALTH EFFECT : Vapor may cause irritation to skin, eyes and throat.

ENVIRONMENTAL EFFECTS : Not available

3.COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME : Hydrogenated rosin

INGREDIENTS	COMPOSITION	CHEMICAL FORMULA	CAS No.
Hydrogenated rosin	100.0%	Confidential	Registered

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#### 4.FIRST-AID MEASURES

- EYE CONTACT : Immediately rinse the affected eyes, including under the eyelids, with clean water for at least fifteen minutes and see a doctor.
- SKIN CONTACT : Wash the affected area under tepid running water using mild soap.
- INHALATION : Move the victim immediately into fresh air. If necessary, see a doctor for proper treatment.
- INGESTION : Give the victim some glasses of water and try to get the victim to vomit. (However, do not make an unconscious person vomit.) Immediately see a doctor.
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#### 5.FIRE-FIGHTING MEASURES

##### SUITABLE EXTINGUISHING MEDIA:

Water spray, Dry chemical powder

UNSUITABLE EXTINGUISHING MEDIA: Not available

##### SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:

Extinguish fire with water or extinguishing media.

##### PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

Wear proper protective equipment (gloves, glasses, mask) during firefighting.

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#### 6.ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

When dealing with spillage wear protective globes, protective eyewear and protective clothing.

##### ENVIRONMENTAL PRECAUTIONS:

Do not contaminate water sources or sewer.

##### METHODS AND EQUIPMENT FOR CONTAINMENT AND CLEANING UP:

Sweep up, place in a bag and hold for waste disposal, or take up and place in closed container. Use only non-sparking tools for recovery and cleanup.

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#### 7.HANDLING AND STORAGE

##### HANDLING

- TECHNICAL MEASURES : Wear proper protective equipment when working.
- Do not breathe dust by wearing dust respirator.
- If outdoors, work upwind.
- Prevent build-up of electrostatic charges (e.g. by grounding).
- Do not handle containers roughly. Avoid overturning, falling, dragging and any other damage.

LOCAL AND GENERAL VENTILATION : Use only under local exhaust ventilation.

##### PRECAUTIONS FOR SAFE HANDLING:

Keep fire away.

Avoid dust formation.

Avoid contact with skin or eyes. Avoid inhaling dust and/or fumes.

Use explosion-proof equipment and prevent the build-up of electrostatic charge.

Because the product is a rosin derivative, the components are different from rosin. Therefore, it is not easy to

clarify the component of rosin in the product. However, in consideration of the safety of operators, the handling corresponding to rosin is described herein.

PREVENTS HANDLING OF INCOMPATIBLE SUBSTANCES OR MIXTURES : Refer to Section 10.

#### STORAGE

#### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Keep containers away from sunlight and keep them upright and tightly closed when in no use. Leakage, overturn, or fall-down should be strictly avoided. Product should be stored in a cool dark indoor facility.

In order to avoid chunk, packages should not be wrapped by any type of film, not be stacked at storage site and should be stored separately.

MATERIAL USED IN PACKAGING/CONTAINERS: Not specified

### 8.EXPOSURE CONTROL/PERSONAL PROTECTION

#### CONTROL PARAMETERS:

##### ACGIH

Particles 3mg/m<sup>3</sup>(Respirable particles), 10mg/m<sup>3</sup>(Inhalable particles)

APPROPRIATE ENGINEERING CONTROLS : Provide local exhaust ventilation or tightly closed equipment.

RESPIRATORY PROTECTION : Filter respirator, Dust respirator

HAND PROTECTION : Anti-static and protective gloves

EYE/FACE PROTECTION : Safety goggles, Chemical goggles

SKIN AND BODY PROTECTION : Anti-static and protective clothing

### 9.PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	: Solid
APPEARANCE	: Block to powder form
COLOUR	: Colourless - Pale yellow
ODOUR	: Odorless
pH	: Not applicable
BOILING POINT	: Not available
MELTING POINT	: 86 °C(Softening point)
DECOMPOSITION TEMPERATURE	: Not available
FLASH POINT	: 203 °C
SPONTANEOUS IGNITION TEMPERATURE	: Not available
EXPLOSIVE LIMITS	: Not available
VAPOUR PRESSURE	: Not available
SPECIFIC GRAVITY DENSITY	: 1.059 g/cm <sup>3</sup> (20°C)
SOLUBILITY	: Insoluble in water.
log Kow	: Not available
FLAMMABILITY	: Flammable
KINEMATIC VISCOSITY	: Not available
RELATIVE GAS DENSITY	: Not applicable

PARTICLE PROPERTIES : Not available

#### 10.STABILITY AND REACTIVITY

REACTIVITY : Not available

CHEMICAL STABILITY : Stable at normal temperature and pressures. May form explosible dust-air mixture if dispersed.

POSSIBILITY OF HAZARDOUS REACTIONS : Not self-reactive.

Powder or granules may cause dust explosion when mixed with air.

CONDITIONS TO AVOID : Heating and high temperature. Accumulation of dust. Contact with open flames, static discharges, sparks and other ignition sources.

INCOMPATIBLE MATERIALS : Not available

HAZARDOUS DECOMPOSITION PRODUCTS : Not available

#### 11.TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

ORAL	:	Classification not possible
DERMAL	:	Classification not possible
INHALATION(GAS)	:	Not classified (Not applicable)
INHALATION(VAPOURS)	:	Classification not possible
INHALATION(DUST/MIST)	:	Classification not possible

SKIN CORROSION/IRRITATION : Classification not possible

SERIOUS EYE DAMAGE/EYE IRRITATION : Classification not possible

Dust and vapor may irritate eye and respiratory tract.<sup>1)2)</sup>.

#### RESPIRATORY OR SKIN SENSITIZATION

Repeated or prolonged contact may cause sensitization.<sup>1)2)</sup>.

RESPIRATORY SENSITIZATION : Classification not possible

SKIN SENSITIZATION : Classification not possible

GERM CELL MUTAGENICITY : Classification not possible

CARCINOGENICITY : Classification not possible

REPRODUCTIVE TOXICITY : Classification not possible

SPECIFIC TARGET ORGAN TOXICITY(SINGLE EXPOSURE) : Classification not possible

SPECIFIC TARGET ORGAN TOXICITY(REPEATED EXPOSURE) : Classification not possible

ASPIRATION HAZARD : Classification not possible

OTHER INFORMATION : Not available

#### 12.ECOLOGICAL INFORMATION

##### ECOTOXICITY

HAZARDOUS TO THE AQUATIC ENVIRONMENT, SHORT-TERM (ACUTE) : Classification not possible

HAZARDOUS TO THE AQUATIC ENVIRONMENT, LONG-TERM (CHRONIC) : Classification not possible

PERSISTENCE AND DEGRADABILITY : Not available

BIOACCUMULATION : Not available

MOBILITY IN SOIL	: Not available
HAZARDOUS TO THE OZONE LAYER	: Classification not possible
OTHER ADVERSE EFFECTS	: Not available

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### 13.DISPOSAL CONSIDERATIONS

#### DISPOSAL METHODS :

Disposing of this material/ container should be done under all the regulations or handled by authorized waste collector in your country.

#### CONTAMINATED CONTAINER AND PACKAGING :

When disposing of the container, remove the contents completely before disposal and dispose of it in accordance with laws and regulations in your country.

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### 14.TRANSPORT INFORMATION

Keep away from direct sunlight and contact with water. Keep the material from overturn, fall-down and any other damage.

UN CLASS : Not applicable(based on a similar product data)

UN No. : Not applicable

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### 15.REGULATORY INFORMATION

Arakawa Chemical Industries, Ltd. is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

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### 16.OTHER INFORMATION

#### REFERENCES:

- 1) Journal of Occupational Health (Japan Society for Occupational Health), Vol.40, No.4 (1998)
- 2) 1999 TLV and BEIs (ACGIH)

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