

# **Safety Data Sheet**

### 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

ADDITIVE, ZCH-100D

1.2. Relevant identified uses of the substance or mixture and uses advised against

Coolant

1.3. Details of the supplier of the safety data sheet

Manufacturer: Roland DG Corporation

Address: 1-6-4 Shinmiyakoda, Kita-ku, Hamamatsu-shi,

Shizuoka-ken, 431-2103

**JAPAN** 

Phone: + 81-53-484-1224 Fax: + 81-53-484-1226

Supplier: DGSHAPE Corporation

Address: 1-6-4 Shinmiyakoda, Kita-ku, Hamamatsu-shi,

Shizuoka-ken, 431-2103

**JAPAN** 

Phone: + 81-53-482-7069 Fax: + 81-53-424-6059

E-mail Address:

Revised date: 10 May, 2018

1.4. Emergency telephone:

# 2. Hazard identification

2.1. Classification of the substance or mixture

This product is not classified as hazardous according to GHS criteria.

2.2. GHS label elements, incliding precautionary statements

The product does not need to be labelled in accordance with GHS criteria.

2.3. Other hazards

Potential Health Effects:

Eyes: Contact with eye may be mildly irritating.

Skin: Contact with skin may cause irritation, swelling or redness, allergic
Inhalation: Exposure to vapors (mist) will cause respiratory irritation and anesthesia.

Ingestion: May cause upset stomach.

Chronic Health Hazards: Repeated skin contact may cause a persistent irritation or dermatitis.

Carcinogenicity: None of the ingredients in this product is listed by IARC as a carcinogen. (1,2A

and 2B)



### 3. Composition/information on ingredients

Chemical nature: mixture

Composition	CAS No.	EC No.	EU registration No.	% By Weight	Classification EC No. 1272/2008
Chelating agent	C.B.I.	C.B.I.	N/A for the moment	40-60	Not classified as hazardous
Water	-	-	Extemption	40-60	Not classified as hazardous

<sup>\*</sup>C.B.I.: Confidential Business Information

#### 4. First aid measures

4.1. Description of first aid measures

Eyes: In case of contact, immediately flush eyes with plenty of water for several minutes. Hold

eyelids open during flushing. Call a physician.

Skin: In case of contact, immediately flush with plenty of water while removing contaminated

clothing and shoes. Wash contaminated clothing before reuse. If swelling or redness occurs,

call a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Call a physician.

Ingestion: If swallowed, DO NOT induce vomiting. Seek immediate medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Eyes: Contact with eye may be mildly irritating.

Skin: Contact with skin may cause irritation, swelling or redness, allergic sensitization.

Inhalation: Exposure to vapors (mist) will cause respiratory irritation and anesthesia.

Ingestion: May cause upset stomach.

4.3. Indication of any immediate medical attention and special treatment needed

No information

### **5. Firefighting measures**

Suitable extinguishing media:

Dry chemical, Foam, Carbon dioxide, Dry sand, Loaded stream in spray.

Unsuitable extinguishing media:

Water, High-pressure water jet

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

Flash Point: >100deg.C

# 5.3. Advice for firefighters

Wear special chemical protective clothing and positive pressure self-contained breathing apparatus(SCBA). Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Decontaminate or discard any clothing that may contain chemical residues. Applying direct water may be dangerous because fire may expand to surroundings.



### 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus and wear appropriate personal protective equipment.

6.2. Environmental precautions

Wipe off spillage. Prevent liquid from entering sewers, waterways or low areas.

6.3. Methods and material for containment and cleaning up

Sweep up material and dispose as waste following local regulations.

6.4. Reference to other sections

Refer to "Section 8 Exposure controls/ personal protection" and "Section 13 Disposal consideration" as appropriate.

#### 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes, skin and clothing. Use proper ventilation and no fire in work place. Keep out of reach of children and do not drink. Do not dismantle container.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Do not store the product in high or freezing temperatures. Keep the product out of direct sunlight. Do not store the product with metals, amines, free radical initiators, oxidising agents.

7.3. Specific end use(s): Coolant

# 8. Exposure controls/ personal protection

8.1. Control parameters

Occupational Exposure Limits: Not specified.

8.2. Exposure controls

Occupational exposure control: Provide general and/or local exhaust ventilation.

Personal protective equipment:

Respiratory protection: In case ventilation is insufficient, employee must use NIOSH approved air

purifying respiratory protection equipment. Use a half facepiece respirator (with goggles) or full face-piece respirator (without goggles) filtered with organic vapor cartridge. For emergency and other conditions where the exposure guideline may be exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self contained air

supply. WARNING: Air-purifying respirators do not protect workers in

oxygen-deficient atmospheres.

Hand protection: When handling the product or washing the multiple job, use protective gloves.

Recommended Chemical Protective Gloves are ethylene vinyl alcohol (EVA) Gloves and Laminate gloves. Laminate gloves are made by cutting and then heat-sealing patterns of various hand sizes from laminated sheets of EVA sealed

between layers of polyethylene.

Eye protection: Wear safety glasses or chemical splash goggles.

Skin protection: When handling the product, wear protective clothing.



Hygiene measures: Wash hands after handling. In case contact with clothing, wash before reuse.

Do not eat, drink or smoke in handling or storage area.

Environmental exposure control: Avoid release to the environment.

### 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance: Clear liquid
Odour: Slightly

Odour threshold; No data available pH: Approx. 1.0
Melting point/freezing point; No data available Initial boiling point and boiling range; No data available

Flash point: >100 °C

Evaporation rate: No data available Flammability(solid,gas): Not applicable Upper/lower flammability or No data available

explosive limits;

Vapor pressure:

Vapor density:

Relative density:

Solubility:

No data available

No data available

No data available

No data available

Solubility(ies); Water solubility: Soluble

Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature; No data available
Decomposition temperature; No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: No data available
Volatile organic compounds (VOC) No data available

content:

9.2. Other information: No information

### 10. Stability and reactivity

10.1. Reactivity: No reactivity under normal temperature. 10.2. Chemical stability: Stable under normal temperature

10.3. Possibility of hazardous reactions: Not expected

10.4. Conditions to avoid: Elevated temperatures/heat, UV light, when not in use.

10.5. Incompatible materials: Avoid contact with acids, amines, free radical initiators, oxidizing agents.

10.6. Hazardous decomposition products: Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic

### 11. Toxicological information

11.1. Information on toxicological effects

Routes Of Overexposure: Eye, skin, inhalation, and oral

Acute toxicity:

Oral LD50  $\geq$  5000mg/kg (rat, OECD423)

Dermal LD50 No data available Inhalant LC50 No data available

Skin corrosion/irritation:

Serious eye damage/eye irritation:

Respiratory or skin sensitisation:

Germ cell mutagenicity:

No data available

No data available

No data available

No data available

Carcinogenicity: None of the ingredients in this product is listed by IARC as a carcinogen. (1,2A

and 2B)



STOT-single exposure: No data available STOT-repeated exposure: No data available Aspiration hazard: No data available

# 12. Ecological information

12.1. Toxicity: No data available
12.2. Persistence and degradability: No data available
12.3. Bioaccumulative potential: No data available
12.4. Mobility in soil: No data available

12.5. Results of PBT and vPvB assessment: Has not carried out PBT and vPvB assessment.

12.6. Other adverse effects:

No data available

### 13. Disposal considerations

13.1. Waste treatment methods:

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. Do not flush to surface water or sanitary sewer system.

#### 14. Transport information

14.1. UN Class/UN Number:

ADR/ADG/DOT, IMDG, or IATA: Not regulated

14.2. UN proper shipping name:

ADR/ADG/DOT, IMDG, or IATA: Not regulated

14.3. Transport hazard class(es):

ADR/ADG/DOT, IMDG, or IATA: Not regulated

14.4. Packing group:

ADR/ADG/DOT, IMDG, or IATA:

Not regulated

14.5. Environmental hazards:

ADR/ADG/DOT, IMDG, or IATA:

Not regulated

14.6. Special precautions for user: Transport and storage of the product in accordance with general

precautions and instructions mentioned in this SDS.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code:

Not regulated

# 15. Regulatory information

**EU Information:** 

Chemical Safety Assessment according to (EC)No. 1907/2006:

This product has not carried out any Chemical Safety Assessment yet.

Australia Information:

Hazardous statement: Not classified as hazardous according to NOHSC criteria.

International Information:

None of the ingredients in this product is listed by IARC as a carcinogen. (1,2A and 2B)

### 16. Other information

List of relevant H-Statements in section 3: Nothing

The information in this Safety Data Sheet (SDS) is believed to be correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is subject to revision as additional knowledge and experience is gained. Roland DG does not warrant the completeness or accuracy of the information contained herein.