

Safety Data Sheet

1. Products and company identification

Product name	AQUA ROVAL Cold Galvanizing Compound (Liquid)
Supplier Name	Shanghai Roval Zinc Rich Paint Corporation
Supplier Address	NO.393 Fenggong RD, Jiading Malu Shanghai, China
Telephone number	+86-21-69156584
FAX	+86-21-69156593
Emergency Telephone number	+86-400-6267-911
E-mail	sh-info@roval.cn
Recommended use	Galvanizing Repair and Anti-corrosion of steel
Date of revision	Mar 17 th , 2020

2. Hazards identification

2.1 Classification of the substance or mixture

PHYSICAL AND CHEMICAL HAZARDS

Not eligible for classification

HEALTH HAZARDS

Acute toxicity (Oral): Not Classified

(Dermal): Not Classified

(Vapors): Not Classified

(Dust/Mist): Not Classified

Skin corrosion/irritation: Not Classified

Eye Effects/Serious eye damage/Eye irritation: Not Classified

Respiratory sensitizer: Not Classified

Skin sensitizer: Not Classified

Germ Cell Mutagenicity: Not Classified

Carcinogenicity: Not Classified

Reproductive Toxicity: Class 2

TOST: Single Exposure: Not Classified

Repeated Exposure: Class 2 (respiratory system, liver, adrenal glands, kidney, spleen, bone marrow)

Aspiration Hazard: Not Classified

ENVIRONMENTAL HAZARDS:

Acute aquatic toxicity: Not Classified

Chronic aquatic toxicity: Not Classified

Hazard to Ozone: Classification not possible

(Note) GHS classification without description: Not classified/Classification not possible

2.2 Label elements



Signal word: WARNING

HAZARD STATEMENT

H361: Suspected of damaging fertility or the unborn child

H373: May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENT

Prevention

P201: Obtain special instruction before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/fumes/gas/mist/vapors/spray.

P270: Do not eat, drink or smoke when using this product.

Response

P308+313: If exposed: Call a POISON CENTER or doctor/physician.

Storage

P405: Store locked up.

Disposal

P501: Dispose of contents/container in accordance with local/national regulation.

3. Composition /information on ingredients

Mixture / Substance selection: Mixture

Chemical identity	% Weigh	CAS number
N-methyl-2-pyrrolidone	1~5	872-50-4

4. First-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor / physician if you feel unwell.

IF ON SKIN (or hair)

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

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice / attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention.

IF SWALLOWED

Do NOT induce vomiting.

Drink a glass of water or milk to dilute.

Immediately call a POISON CENTER or doctor / physician.

Protection for whom does first-aid

Wear proper protective equipment.

5. Fire-fighting measures

5.1 Extinguishing Media

Any extinguisher

5.2 Advice for firefighters

Wear proper protective equipment. Remove sources of ignition.

Use specified extinguishing media.

Cool closed containers which may be exposed to heat.

Extinguish from windward side.

6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Evacuate area.

Keep unauthorized personnel away.

Wear an air-supplied respirator for handling a spill at a poor ventilated workplace.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Fill the disposal into labelled, closable containers.

6.4 Preventive measures for secondary accident

Collect spillage.

Prepare extinguishers before catching fire.

Stop leak if safe to do so.

7. Handling and storage

7.1 Precautions for safe handling

Handle in a well-ventilated area.

Install ventilating equipment and wear protective clothes when handling at closed area.

Wash hands and face completely after the handling and do not bring contaminated clothes into other places.

7.2 Storage

Avoid direct sunshine. Store in a dry, well-ventilated, locked-up area.

Keep away from the reach of the children.

Keep containers away from fire/flame.

8. Exposure controls / personal protection

8.1 Control parameters

Chemical identity	ACGIH_TLV (2016)
N-methyl-2-pyrrolidone	---

8.2 Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

Wear respiratory protection

Hand protection

Wear protective gloves. Recommended material: impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side -shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

Wear impervious clothing and boots in case of repeated or prolonged treatment.

9. Physical and chemical properties

Physical state	: Liquid
Color	: Milky white
Odor	: Unique smell
pH	: N/A
Boiling point	: N/A
Melting point	: N/A
Flash point	: N/A
Explosion limits (vol%)	: N/A
Vapor pressure	: N/A
Vapor density	: N/A
Specific gravity	: 1.0
Solubility in water	: N/A
Auto-ignition temperature	: N/A
Decomposing temperature	: N/A
Water partition coefficient	: N/A
Volatile content	: 22.3%

10. Stability and Reactivity

Chemical stability	: Stable under normal storage/handling conditions.
Conditions to avoid	: Direct sunshine
Possibility of hazardous reactions	: None
Hazardous decomposition products	: Stable under normal storage/handling conditions.

11. Toxicological information

Acute toxicity

Material	Oral	Category	Dermal	Category
N-methyl-2-pyrrolidone	3.5g/kg	Not classified	6.0g/kg	Not classified

Material	Gas	Category	Vapor	Category	Dust / Mist	Category
N-methyl-2-pyrrolidone	Not applicable		Not possible		>5.1mg/L	Not possible

Material	Skin corrosion/irritation	Eye damage/irritation	Respiratory sensitization	Skin sensitization
N-methyl-2-pyrrolidone	2	2A	Not possible	Not possible

Material	Germ cell mutagenicity	Carcinogenicity	Reproductive toxicity
N-methyl-2-pyrrolidone	Not classified	Not classified	2

Material	TOST (single)	TOST (Chronic)	Aspiration Hazard
N-methyl-2-pyrrolidone	3 (respiratory tract irritation)	2 (bone marrow, spleen, liver, respiratory system, adrenal glands, kidney)	Not possible

12. Ecological information

Ecotoxicity

Material	Acute Aquatic Toxicity	Chronic Aquatic Toxicity
N-methyl-2-pyrrolidone	Not classified	Not classified

General Precaution: Be careful not to spill or leak product and wash water into river and water drain.

The product may have adverse effect on environment.

13. Disposal considerations

Waste treatment methods

Avoid release to the environment.

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

14. Transport information

UN No. : None

UN Class : None

PG : ---

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.

Other information is not available.

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

16. Other information

International Chemical Safety Cards (ICSCs)/ Hazardous Substances Data Bank (HSDB)

MSDS from The Japan Paint Manufacturers Association (JPMA)

MSDS from manufacturers of raw materials

This data sheet is created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.