

1. Products and company identification

Product name: SUISEI ROVAL Part B: Liquid
Recommended use: Anti-corrosion of steel/iron.
Supplier: Roval Corporation
 6-41-1, Ikuno, Katano
 Osaka, 5760054, Japan
 +81-72-892-7791
Emergency phone number: +81-72-892-9955
Date Revised: March 5, 2018

2. Hazards identification

PHYSICAL HAZARDS:	Not eligible for classification				
HEALTH HAZARDS:					
Acute Toxicity	Oral:	Dermal:	Inhalation (Gas):	Inhalation (Vapors):	Inhalation (Dust/Mist)
	Not classified	Not classified	Not eligible for classification	Not classified	Not classified
	Skin Corrosion/Irritation:	Eye Effects/Serious eye damage/Eye irritation:	Respiratory sensitizer: solid/liquid	Respiratory sensitizer: gas	Skin sensitizer:
	Not classified	Not classified	Not classified	Classification not possible	Not classified
	Germ Cell Mutagenicity:	Carcinogenicity:	Reproductive Toxicity:	Harm to breast-fed child	
	Not classified	Not classified	Category 2	Classification not possible	
TOST (single)	Category 1		Category 2		Category 3
TOST (repeated)	Category 1		Category 2: May cause damage to respiratory organ, liver, adrenal gland, kidney, lien, bone marow		
Aspiration Hazard:	Acute Aquatic Toxicity:	Chronic Aquatic Toxicity:	Hazard to Ozone:		
Not classified	Not classified	Not classified	Classification not possible		

*Item without description of classification means "classification not possible" or "not classified".

Hazard Symbols:



Signal Word:

Warning

Hazard Statement:

- Suspected of damaging fertility or the unborn child
- May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:

[PREVENTION]

- Do not handle until all safety precautions have been read and understood
- Obtain special instruction before use

- Do not breathe dust/fume/gas/mist/vapor/spray
- Wear protective gloves/protective clothing/eye protection/face protection

[FIRST AID]

- In case of exposure: Get medical attention.

[STORAGE]

- Store locked up.

[DISPOSAL]

- Follow the regulations of your country when disposing of the container.

3. Composition/information on ingredients

Substance/Mixture: Mixture

Substance	Composition(%)	CAS No.	PRTR
N –methyl-2-pyrrolidone	3~6	872-50-4	---

4. First-aid measures

Inhalation: Remove to fresh air. Seek medical attention if symptoms persist.

Skin contact: Remove all contaminated clothing. Wash the affected area with plenty of water with mild soap. Do not use solvent or thinner. If appearance changes or irritation is continued, refer to medical attention.

Eye contact: Gently rinse the affected eyes with a lot of clean water for at least 15 minutes lifting upper and lower eyelids occasionally. Remove contact lenses if present and easy to do. Get immediate medical attention as soon as possible.

Ingestion: Get medical attention immediately. Do not induce vomiting. Do not let the victim vomit without an instruction by doctor.

Protection for whom does first-aid: Wear proper protective equipment. Keep ventilating.

5. Firefighting measures

Extinguishing Media: Any extinguisher (the product does not incinerate)

Must-Not-Be-Used: No instruction.

Special protective equipment and precaution for fire fighters: No instruction.

6. Accidental release measures

Personal precautions:

Use the necessary personal protective equipment when handling. Keep ventilating while indoor use. Handle in windward side while outside use. Keep away any person who is not concerned.

Environmental precautions:

Do not empty into drains or water to avoid damage to environment.

Containment & Cleaning up:

Recover the leak into container that can be closed and remove the container to safe place. Follow the

local regulation when disposing of extraneous matters or waste. Recover by shovel or waste cloth. For large spill, avoid further leakage by filling of the ground. Be careful when using water for spreading of leakage into the environment.

7. Handling and Storage

[Handling]

Handle in a well-ventilated area. Close the container after use. 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.

[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

Substance	Controlled Density	Japan Society for Occupational Health Accepted Density	
		1ppm	4mg / m ³
N –methyl-2-pyrrolidone	---	1ppm	4mg / m ³

Engineering measures: In case of indoor application, install auto-application machine to avoid direct contact of the applicator with the product or install ventilating equipment for applicator to avoid exposure to the product.

Personal protection measures:

Eye protection: Protective goggle.

Hand protection: Protective gloves that do not penetrate solvent or chemical matters.

Respiratory protection: Proper protective mask.

Body protection: Wear protective cloths to avoid direct contact with skin.

9. Physical and Chemical Properties

Physical State:	Liquid	Color:	Milky white
Odor:	Unique smell	Boiling Point:	N/A
Flash Point:	N/A	Explosion Limits(vol%):	N/A
Vapor Pressure:	N/A	Specific Gravity:	1.0
Auto-ignition Temp:	N/A		

10. Stability and Reactivity

Stability:	Stable under normal condition and anticipated storage.
Conditions to avoid:	Direct sunshine
Possibility of Hazardous Reactions:	None
Media must-not-be-mixed:	No instruction
Hazardous decomposition Products:	Generate carbon monoxide and carbon dioxide.

11. Toxicological information

[ACUTE TOXICITY]

Substance	Oral	Class	Dermal	Class
N –methyl-2-pyrrolidone	3.5g/kg	Not classified	6.0g/kg	Not classified

[ACUTE TOXICITY]

Substance	Inhalation (gas)	Class	Inhalation (vapor)	Class	Inhalation (dust/mist)	Class
N –methyl-2-pyrrolidone	Not eligible for classification		Classification not possible		>5.1mg/L	Not classified

Substance	Skin Corrosion/irritation	Eye damage/irritation	Respiratory Sensitization	Skin sensitization
N –methyl-2-pyrrolidone	Category 2	Category 2A	Classification not possible	Not classified

Substance	Germ cell mutagenicity	Carcinogenicity	Reproductive Toxicity
N –methyl-2-pyrrolidone	Not classified	Classification not possible	Category 2

Substance	TOST (single)	TOST (repeated)	Aspiration hazard
N –methyl-2-pyrrolidone	Category 3 (respiratory tract irritation)	Category 2 (bone marrow, spleen, liver, respiratory system, adrenal glands, kidney)	Classification not possible

12. Ecological Information

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.

Ecological Toxicity:

Material	Acute Aquatic Toxicity	Chronic Aquatic Toxicity	Hazard to Ozone
N –methyl-2-pyrrolidone	Not classified	Not classified	Classification not possible

Persistence and Degradative: No data

Bioaccumulation potential: No data

13. Disposal considerations

[Residual wastage, contaminated container and package]

Follow the local regulation. Licensed industrial waste disposer should dispose waste including residue and container after the consignment contract. Wash water used for cleansing containers and equipment must not be released into environment.

For other wastage arouse in effluent processing, dispose of them in accordance with the law or entrust it. Empty containers should be disposed after the content is completely removed. Empty containers and packages are recommended to be recycled.

14. Transport information

[Regulation] UN No.: None UN Class: None PG: None

15. Regulatory Information

Classification and labeling in accordance with Labor Safety and Health Act:

See Section 2

Other regulation for foreign countries:

Regulatory information with regards to this preparation in your country or region should be examined by your won responsibility.

16. Other Information

References:

- 1) GHS Classification Guidance for Enterprises
- 2) SDS from manufacturers of raw materials
- 3) Roval's own data

The information herein is given in good faith, but no warranty, express or implied, is made.

The information contained herein is, to the best of Roval's knowledge and belief, accurate and reliable as of the data issued. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise SDS periodically as new information becomes available.
