

SAFETY DATA SHEET

First Issue / Revised : 7-NOV-2017

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product name **ROYAL F - 2 No . 2**
Name of manufacturer RUBIC Co.,LTD.
Address 5-1-25-201,NISHITHURUMA,YAMATO-CITY,KANAGAWA,JAPAN
Tel +81-46-263-8103
Fax +81-46-263-8104

SECTION 2 - HAZARDS IDENTIFICATION

GHS classification :

Flammable solids	Not classified.
Pyrophoric solids	Not classified.
Self-heating substances and mixtures	Not classified.
Corrosive to metals	Not classified.

Pictograms : Not applicable

Signal word : Not applicable

Hazard Statements : Not applicable

Precautionary Statements :

General If medical advice is needed,have product container or label at hand.
 Read label before use.
 Keep out of reach of children.

Prevention

Response

Storage

Disposal

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

Other Hazards : Combustibility.Keep away from ignition sources such as heat/sparks/
 open flames/hot surfaces.

SECTION 3 - COMPOSITION/INFORMATION OF INGREDIENTS

Substance/Preparation : Preparation

Ingredient name	content	CAS No.
Refined mineral base oil	75 ~ 85%	
Urea chemical compound thickener	5 ~ 15%	
Additives (PTFE,etc.)	5 ~ 15%	

Industrial Safety and Health Law :

Substances subject to be indicated names Mineral oil

Substances subject to be notified names Mineral oil 75 ~ 85%

Pollutant Release and Transfer Register : Not applicable

Poisonous and Deleterious Substances Control Law : Not applicable

SECTION 4 - FIRST AID MEASURES

General procedures : Get medical attention/advice if you feel unwell.

INHALATION : Remove to fresh air and keep at rest in the easy style of breathes.
 Get medical attention if symptoms occur.

SKIN : Wash with soap and water.Get medical attention if irritation persists.
 If you observe unusual symptom,have irritation/pain and/or feel unwell,
 seek medical advice.

EYES : Immediately flush with plenty water for at least 15 minutes.Remove contact
 lenses,if it can be taken off easily.Continue rinsing.Get medical attention.

INGESTION : If swallowed, do not induce vomiting. Wash out mouth.
Seek medical advice immediately.
Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media : Form, dry chemical, water fog or carbon dioxide.

Unsuitable extinguishing media : Do not use direct water jet.

Specific hazards arising from the chemical :

By fire or overheating more than 260 degrees Celsius, this product may disintegrate with toxic gas.

Protective equipment and precautions for firefighters :

The extinction work to be done from the windward.

In the event of fire and/or explosion do not breathe fumes.

Wear self-contained breathing apparatus and protective suit.

Wear proper protective equipment.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures :

Keep public away. Be careful not to slip on spilled area.

Ensure adequate ventilation, especially in confined areas.

Wear proper protective equipment.

Environmental precautions :

Prevent spills from entering soil, sewers, watercourses or low areas.

Methods and material for containment and cleaning up :

Eliminate all ignition sources. (no smoking, flames, sparks)

Stop leak if you can do it without risk.

Contain spilled liquid with sand, earth or other non-combustible absorbent material and transfer to containers.

Consult an expert on the disposal of recovered material.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling :

Wear proper protective equipment. (glasses/face/gloves/clothing/shoes)

Do not ingest.

Avoid breathing vapors, mists, fume, gas, dust. Avoid contact with skin and eyes.

Vapors may cause dizziness or suffocation. Inhalation or contact with material may irritate or burn skin and eyes.

Use only outdoors or in a well-ventilated area.

Keep away from heat, sparks, open flames, hot surfaces.

Do not spray on an open flame or other ignition source.

When using do not eat, drink or smoke.

After handling, wash well hands and face and rinse mouth.

Conditions for safe storage, including any incompatibilities :

Keep container tightly closed when not in use. Store locked up.

Keep container in a cool, well-ventilated area. Protect from sunlight.

Keep away from heat, sparks, open flames, hot surfaces.

Keep away from strong oxidizing agent, acids, alkalis, halogens.

Do not rub and make a impact.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters :

Ingredient name	ACGIH TLV/TWA	OSHA PEL
Refined mineral base oil	TWA 5mg/m ³ (as oil mist)	

Appropriate engineering controls :

Ensure adequate ventilation.

Washing facilities should be available.

Protective equipment :

Eye/Face Wear safety glasses with side shields or goggles.
 Skin/Body oil resistance type gloves, clothing and safety shoes.
 Respiratory organs No protective equipment is needed under normal use conditions.
 If exposure limits are exceeded or irritation is experienced, ventilation
 and evacuation may be required.
 In case of inadequate ventilation, wear suitable respiratory equipment.

Safety and health measure :

Do not put it on eyes, skin and clothes.
 After handling, wash well hands and face and rinse mouth.
 When using do not eat, drink or smoke.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance white
 Physucal state grease
 odor mineral oil odor
 Density(25) 1.0 g/cm³
 Initial boiling point Not determined
 Flash point 200 < (SETA)
 Autoignition Temperature Not determined
 Flammability limits Upper 7.0 % Lower 1.0 % (base oil)
 Kinematic viscosity(40) Not determined
 pH Not determined
 Solubility insoluble(water)
 Drop point 200 <

SECTION 10 - STABILITY AND REACTIVITY

Stability : Stable under normal conditions.
 Hazardous reactions : When product comes in contact with an strong oxidizing agent, it may react.
 Conditions to avoid : strong oxidizing agent, acids, alkalis, halogens.
 heat, sparks, open flames, hot surfaces.
 Hazardous decomposition products :
 By fire or overheating more than 260 degrees Celsius, this products may
 disintegrate with toxic gas. (HF, COF₂ etc.)

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity : Oral rat LD₅₀ 5000mg/kg < (Base oil)
 dermall rat LD₅₀ 5000mg/kg < (base oil)
 Inhalation rat LC₅₀ 5mg/kg (base oil)
 Skin corrosion/irritation : When this product comes into contact repeatedly, it may stimulate
 skin.
 Serious eye damage/irritation : This product may stimulate eye and mucous membranes.
 respiratory organs sensitization : No information available.
 Skin sensitization : No information available.
 Germ cell mutagenicity : No information available.
 Carcinogenicity : IARC GROUP3 (base oil)
 Besides, there is not the information available.
 Toxic to reproduction : No information available.
 STOT-single exposure : No information available.
 STOT-repeated exposure : No information available.
 Aspiration hazard : No information available.

SECTION 12 - ECOLOGICAL INFORMATION

Hazards to aquatic environment-acute : No information available.

Hazards to aquatic environment-chronic : No information available.

Hazards to the ozone layer : This product is not a regulation material.

Mobility : Judging from a physicochemical property, This product may move to the atmosphere, water system, soil environment.

Persistence and degradability : No information available.

Bioaccumulation : No information available.

Ecotoxicity : No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste residues/Contaminated packaging :

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

Do not dump into sewers, on the ground or into any body of water.

Use appropriate containment to avoid environmental contamination.

SECTION 14 - TRANSPORT INFORMATION

UN Class : Not applicable

UN Number : Not applicable

Display, Wrap, Transport it according to a pertinent law.

It is confirmed that there is neither damage nor a leakage of the container.

The load crumble prevention is surely done.

Do not rub and make an impact. Do not do leggage sideways.

Do not store and transport with strong oxidizing agent etc.

SECTION 15 - REGULATORY INFORMATION

Follow all regulations in your country.

Regulatory Information - Japan

Fire Service Act :

Non-hazardous materials

Industrial Safety and Health Law :

Substances subject to be indicated names

Substances subject to be notified names

Pollutant Release and Transfer Register :

Not applicable

Poisonous and Deleterious Substances Control Law :

Not applicable

Waste Disposal and Public Cleansing Law :

Industrial waste

SECTION 16 - OTHER INFORMATIONReference documents

JIS Z 7252

JIS Z 7253

Supplier's SDS

Threshold limit values for chemical substances and physical agents and biological exposure indices, ACGIH(2010)

IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO HUMANS

§ Notice to Reader

To the best of knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever or the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.