

SAFETY DATA SHEET

Revision Date 05-Sep-2019 Revision Number 3

1. Identification

Product Name VP-B RGT 40%KOH/CREATINE

Cat No.: R21283

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Remel 12076 Santa Fe Drive Lenexa, KS 66215 United States Telephone: 1-800-255-6730 Fax:1-800-621-8251

Emergency Telephone Number

INFOTRAC - 24 Hour Number:

1-800-535-5053

Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Skin Corrosion/irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Category 1

Category 1

Category 3

Target Organs - Respiratory system.

Label Elements

Signal Word

Danger

Hazard Statements

Harmful if swallowed Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eve protection/face protection

Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion**

Rinse mouth

Do NOT induce vomiting

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

| Component | CAS-No | Weight % |
|---------------------|-----------|----------|
| Potassium hydroxide | 1310-58-3 | 40 |

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing before re-use. Call a physician immediately.

Inhalation If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device. Call a physician immediately.

Ingestion Do not induce vomiting. Clean mouth with water. Never give anything by mouth to an

unconscious person. Call a physician immediately.

Most important symptoms and

effects

Notes to Physician

Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to

the delicate tissue and danger of perforation

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media CO₂, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

Autoignition Temperature

Explosion Limits

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 3 | 0 | 0 | N/A |

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to

safe areas. Keep people away from and upwind of spill/leak.

Refer to protective measures listed in Sections 7 and 8

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological

information. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. **Up**

7. Handling and storage

Handling Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only

under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

8. Exposure controls / personal protection

Exposure Guidelines

| Component ACGIH TLV OSHA PEL | | NIOSH IDLH | Mexico OEL (TWA) | |
|------------------------------|------------------------------|--|------------------------------|------------------------------|
| Potassium hydroxide | Ceiling: 2 mg/m ³ | (Vacated) Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ |

VP-B RGT 40%KOH/CREATINE

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Tightly fitting safety goggles. Face-shield.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Liquid **Physical State**

No information available **Appearance** Odor No information available **Odor Threshold** No information available

рΗ 13.5

Melting Point/Range No data available

Boiling Point/Range No information available Flash Point No information available **Evaporation Rate** No information available

Not applicable Flammability (solid,gas)

Flammability or explosive limits

Upper No data available Lower No data available

Vapor Pressure No information available No information available **Vapor Density Specific Gravity** No information available Solubility No information available Partition coefficient; n-octanol/water No data available

No information available **Autoignition Temperature**

Decomposition Temperature No information available **Viscosity** No information available

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stable under normal conditions. Stability

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Category 4. ATE = 300 - 2000 mg/kg. Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. **Dermal LD50** Based on ATE data, the classification criteria are not met. ATE > 20 mg/l. Vapor LC50

Component Information

| Component LD50 Oral | | LD50 Dermal | LC50 Inhalation | |
|--|--|-------------|-----------------|--|
| Potassium hydroxide LD50 = 284 mg/kg (Rat) | | Not listed | Not listed | |
| | | | | |

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | CAS-No | IARC | NTP | ACGIH | OSHA | Mexico |
|---------------------|-----------|------------|------------|------------|------------|------------|
| Potassium hydroxide | 1310-58-3 | Not listed |

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

No information available. **Teratogenicity**

STOT - single exposure

STOT - repeated exposure None known

Aspiration hazard No information available

delayed

Symptoms / effects,both acute and Ingestion causes severe swelling, severe damage to the delicate tissue and danger of

perforation

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

Respiratory system

12. Ecological information

Ecotoxicity

Harmful to aquatic organisms. Contains a substance which is:. The product contains following substances which are hazardous for the environment.

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|---------------------|------------------|-----------------------------|------------|------------|
| Potassium hydroxide | Not listed | LC50: = 80 mg/L, 96h static | Not listed | Not listed |
| | | (Gambusia affinis) | | |

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

No information available. Mobility

| Component | log Pow |
|---------------------|---------|
| Potassium hydroxide | 0.83 |

13. Disposal considerations

Waste Disposal Methods Should not be released into the environment.

14. Transport information

DOT

UN-No UN1814

Proper Shipping Name POTASSIUM HYDROXIDE, SOLUTION

Hazard Class 8
Packing Group ||

TDG

UN-No UN1814

Proper Shipping Name POTASSIUM HYDROXIDE, SOLUTION

Hazard Class 8
Packing Group ||

<u>IATA</u>

UN-No UN1814

Proper Shipping Name POTASSIUM HYDROXIDE, SOLUTION

Hazard Class 8
Packing Group

IMDG/IMO

UN-No UN1814

Proper Shipping Name POTASSIUM HYDROXIDE, SOLUTION

Hazard Class 8
Packing Group |

15. Regulatory information

United States of America Inventory

| Component | CAS-No | TSCA | TSCA Inventory notification - Active/Inactive | TSCA - EPA Regulatory Flags |
|---------------------|-----------|------|--|--------------------------------|
| Potassium hydroxide | 1310-58-3 | X | ACTIVE | - |

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

| | Component | CAS-No | DSL | NDSL | EINECS | PICCS | ENCS | AICS | IECSC | KECL |
|---|---------------------|-----------|-----|------|-----------|-------|------|------|-------|----------|
| Ī | Potassium hydroxide | 1310-58-3 | X | - | 215-181-3 | X | X | Х | Х | KE-29139 |

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

| Component CWA - Hazardous Substances | | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | |
|--------------------------------------|---------------------|--------------------------------|------------------------|---------------------------|---|
| | Potassium hydroxide | X | 1000 lb | - | - |

Clean Air Act Not applicable

VP-B RGT 40%KOH/CREATINE

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

| Component | Hazardous Substances RQs | CERCLA EHS RQs | |
|---------------------|--------------------------|----------------|--|
| Potassium hydroxide | 1000 lb | - | |

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

| Component | onent Massachusetts New Jersey | | Pennsylvania | Illinois | Rhode Island |
|---------------------|--------------------------------|---|--------------|----------|--------------|
| Potassium hydroxide | X | Х | Х | = | X |

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

16. Other information

Prepared By Regulatory Affairs

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is 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

End of SDS