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# Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Murexide 0.4% diluted with K2SO4 SDS No. : 5134E-2
 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN Division: Safety Management Dept. of Chemicals Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp

2. Hazards identification

GHS classification and label elements of the product Classification of the substance or mixture (Note) GHS classification without description: Not classified/Classification not possible Label elements No GHS label element

No Signal word

3. Composition/information on ingredients Mixture/Substance selection: Mixture Ingredient name:Murexide Content (%):0.40 Chemical formula:C8H8N6O6

> CAS No.:3051-09-0 ECNO:221-266-6

Ingredient name:Potassium sulfate Content (%):99 Chemical formula:K2O4S Chemicals No, Japan:1-454 CAS No.:7778-80-5 MW:174.26 ECNO:231-915-5 Note : The figures shown above are not the specifications of the product.

#### 4. First-aid measures

Descriptions of 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.



If skin irritation or rash 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

Rinse mouth.

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

## 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media data is not available.

- Specific hazards arising from the substance or mixture
  - Containers may explode when heated.
    - Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Avoid raising dust.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

Collect spillage.

# 7. Handling and storage

Precautions for safe handling Preventive measures (Protective measures against fire and explosion) Keep away from heat/sparks/open flames/hot surfaces. – No smoking. (Exhaust/ventilator) Exhaust/ventilator should be available. (Safety treatments) Avoid contact with skin. Avoid contact with eyes. Safety Measures Wear protective gloves, protective clothing or face protection.

When using do not eat, drink or smoke.



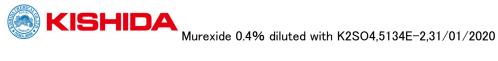
Any incompatibilities See "10.Stability and Reactivity" Storage Conditions for safe storage Keep container tightly closed. Store in a cool, dry place. Do not store in direct sunlight. Container and packaging materials for safe handling Glass

8. Exposure controls/personal protection Control parameters Exposure controls Appropriate engineering controls Do not use in areas without adequate ventilation. Eye wash station should be available. Washing facilities should be available. Individual protection measures Respiratory protection Wear respiratory protection. Hand protection Wear protective gloves. Eye protection Wear eye/face protection.

9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Powder Color: Red-purple Odor data is not available. pH data is not available. Boiling point or initial boiling point data is not available. Boiling range data is not available. Melting point/Freezing point data is not available. Decomposition temperature data is not available. Flammability (gases, liquids and solids) data is not available. Flash point data is not available. Auto-ignition temperature data is not available. Lower and upper explosion limit/flammability limit data is not available. Vapor pressure data is not available. Relative vapor density (Air=1) data is not available. Density and/or relative density data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: Soluble n-Octanol/water partition coefficient data is not available.

No Particle characteristics data is not available.



10. Stability and Reactivity	
Reactivity	
Not available.	
Chemical stability	
Stable under normal storage/handling conditions.	
Possibility of hazardous reactions	
(Potassium sulfate)	
Decomposes on heating. This produces sulfur oxides. (ICSC 1451)	
Conditions to avoid	
Contact with incompatible materials.	
Contact with fire source.	
Incompatible materials	
Oxidizing agents	
Hazardous decomposition products	
Sulfur oxides, Nitrogen oxides	
11. Toxicological Information	
Information on toxicological effects	
Acute toxicity	
Acute toxicity (Oral)	
[Company proprietary data]	
(Potassium sulfate)	
rat LD50=6600 mg/kg	
Irritant properties	
Skin corrosion/irritation data is not available.	
Serious eye damage/irritation data is not available.	
Allergenic and sensitizing effects data is not available.	
Mutagenic effects data is not available.	
Carcinogenic effects data is not available.	
Reproductive toxicity data is not available.	
STOT	
STOT-single exposure data is not available.	
STOT-repeated exposure data is not available.	
Aspiration hazard data is not available.	
Additional data	
May cause lung disorders by massive inhalation of powdered substance.	
<ul> <li>–e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung</li> </ul>	
function, interstitial lung disease, pneumothorax	
12. Ecological Information	
Ecotoxicity	
Ecotoxicity data is not available.	
Water solubility	
(Potassium sulfate)	
$12 \text{ g}/100 \text{ ml} (25^{\circ}\text{C}) (ICSC, 2003)$	
Persistence and degradability	
Persistence and degradability data is not available.	
Bioaccumulative potential	
Bioaccumulative potential data is not available.	
Mobility in soil	
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Mobility in soil

Mobility in soil data is not available.



Other adverse effects Ozone depleting chemical data is not available.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Dispose of contents/container in accordance with local/national regulation.

14. Transport Information
Not applicable to UN No., UN CLASS
Not applicable to IMDG Code
Not applicable to IATA Dangerous Goods Regulations
Environmental hazards
MARPOL Annex III – Prevention of pollution by harmful substances
Marine pollutants (yes/no) : no

15. Regulatory Information

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

Chemicals listed in TSCA Inventory

Murexide; Potassium sulfate

### Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

## 16. Other information

The product is not applicable to GHS classifications.

## Reference Book

Globally Harmonized System of classification and labelling of chemicals, (6th ed., 2015), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (60th Edition) 2019 Classification, labelling and packaging of substances and mixtures (table3–1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2019 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php Supplier's data/information

## **General Disclaimer**

This data sheet was 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.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2018).