



Material Safety Data Sheet

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I. Product Information:

* Product Name: Pikal Care
* Product Code: 14000
* Manufacturer: Nihon Maryo Kogyo Co., Ltd.
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Sales Department
Telephone Number: 03-3441-6231
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Tel: 03-3762-1666
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* Recommended Application: Metal Polishing

II. Hazard Identification:

* GHS Classification:

| Hazard Item | Classification | Alarm Mark | Symbol |
|---|----------------|------------|--------|
| Skin Causticity/Sensitivity | Demarcation-2 | Alarm | |
| Serious Eye Damage – Eye Acridity | Demarcation-2A | Alarm | |
| Particular Target Organ • Single Exposure (Chest) | Demarcation-2 | Alarm | |
| Particular Target Organ • Single Exposure (Air Passage) | Demarcation-3 | Alarm | |
| Particular Target Organ • Multiple Exposure | Demarcation-1 | Danger | |
| Aqueous Environment Acute Hazardousness | Demarcation-3 | -- | -- |
| Aqueous Environment Chronic Hazardousness | Demarcation-3 | -- | -- |

* Hazard Information:

- ① Skin sensitivity
- ② Serious eye damage
- ③ Possibility of organ disorder
- ④ Possibility of respiratory irritation
- ⑤ Organ disorder due to prolonged or repeated exposure
- ⑥ Harmfulness on aquatic organism
- ⑦ Harmfulness on aquatic organism due to long-term effect



III. Composition • Information on Ingredient:

* Demarcation of chemical Substance/mixture - Mixture:

| Substance Name | Industrial Safety and Health Act | | Chemical Management Act | PRTR No. | CAS No. |
|--|----------------------------------|----------------|-------------------------|----------|---------------|
| | Cabinet order # | Content rate % | | | |
| Abrasive material(Al ₂ O ₃) | #189 | 25 | 1-23 | N/A | 1344-28-1 |
| Mineral oil | #168 | 15 | Existing act | N/A | Nondisclosure |
| Mineral turpentine | #551 | 15 | 9-1702 | N/A | 64742-82-1 |
| Fatty acid ammonium salt | N/A | | 2-975 | N/A | 112-80-1 |
| (25%) Ammonium hydrate | #39 | 2 | 1-314 | N/A | 1336-21-6 |
| Surfactant | N/A | | Existing act | N/A | Nondisclosure |
| Water | N/A | | --- | N/A | 7732-18-5 |

IV. First Aid:

- * Inhalation: In case of falling sick due to inhalation of fume or mist, move to the other place to get a fresh air. If discomfort persists, obtain doctor's diagnosis.
- * Skin contact: Wash skin with copious amount of water. Contaminated clothes shall be taken off immediately and be cleaned before re-use. If feeling abnormal, obtain doctor's diagnosis.
- * Eye contact: Don't rub eye but rinse eyes with flushing fresh water for at least 15 minutes, through the backside of eyelid. In case of contact lens being used, remove it immediately and clean. If eye irritation persists, obtain doctor's diagnosis.
- * Ingestion: Don't get the person to vomit forcibly but rinse mouth by water and then obtain doctor's diagnosis..
- * Expected acute symptoms or delayed symptoms In case of accidental ingestion, mucosa of stomach becomes stimulated and certain symptoms such as vomiting, diarrheal, stomach ache, etc may be caused.

V. Measure on Fire:

- * Extinguishant: Carbon dioxide, powder extinguishant, bubble extiguishant, dried sand
- * Particular way for fire extinction Remove goods away from fire area if it is not danger. Fire extinction from upwind position.
- * Particular method for fire extinction Use adequate protective equipment (glove, goggle, mask, etc)



VI. Measure on Leakage:

* Cautions on Body, Protective Equipment and Emergency Measures

Operator shall wear an adequate protective equipment (rubber gloves, goggle, apron, mask, etc)
For inner operation, take a position in upwind under well air ventilated circumstance.
Prepare extinguisher for fire protection.
Refrain from using fire around the work area.

* Cautions on Circumstance:

Take a necessary measure to prevent waste being disposed Into a river, considering environmental affect.
For a small amount of waste, reclaim it in tightly sealable container after absorbing it to a waste cloth, sawdust, soil, or sand, etc.
For a mass disposal, claim it into a tightly sealable metal container after collecting by scoop etc.

* Avoid Secondary Disaster

Remove all ignition source.
Refrain from using fire and smoking in a work area
Prevent waste being flown into a drain ditch, drain sewer, etc

VII. Caution on Handling/Storage:

* Handling:

- ** Technical Measure Work area shall be well air ventilated.
- ** Safety Handling Note Obtain an operation manual and understand every safety matters before starting operation.
Refrain from using high temperature matter and fire around work area
Refrain from inhaling mist or fume.
Refrain from taking food or smoking while using this product
Rinse hands after handling and avoid eye contact
Use an adequate protective equipment

* Storage:

- ** Storing Condition Isolate from ignition source such as heat, spark, open flame
Refrain from storing under direct sunlight, in high temp.($\geq 40^{\circ}\text{C}$), in low temp($\leq 0^{\circ}\text{C}$), under water splash and in high humid

VIII. Anti-Exposure and Protection Measure:

- * Concentration Control Not specified
- * Facility Measure It is recommended to have a washable place(for hand, eye) near to work area
For business use, adequate facility in accordance to “ Industrial Safety and Health Act “(Ordinance on the Prevention of Organic Solvent Poisoning)



| | |
|------------------------------|--|
| * Protective Equipment: | |
| ** For respiratory apparatus | Take a protective mask if it is needed |
| ** For hand | Take protective gloves if it is needed |
| ** For eyes | Take a protective goggle if it is needed |
| ** For skin and body | Take a protective suit if it is needed |
| * Sanitary Measure: | Rinse hands after use |

IX. Physical and Chemical Characteristics:

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|-----------------------------|---|
| * Physical status | Paste form with creamy white color |
| * Odor | Faint ammonia odor |
| * pH | 9 ~ 11(20°C, 10% Solution) |
| * Flashing Point | 35~40°C(flashing point of contained mineral turpentine) |
| * Specific Gravity(density) | 1.1(20°C) |
| * Solubility | Disperse in water |

X. Stability and Reactivity:

| | |
|--------------------------------|---|
| * Stability | Stable under normal condition |
| * Dangerous hazardous reaction | None |
| * Situation to Avoid | Heating, freezing |
| * Dangerous hazardous product | By heating, petroleum component(mineral oil and turpentine) and small amount of ammonia gas are generated |

XI. Hazardous Information:

| | |
|---|--------------------|
| * Acute Toxicity (Oral) | Out of Demarcation |
| * Acute Toxicity (Percutaneous) | Out of Demarcation |
| * Acute Toxicity (Dust attraction : Dust, Mist) | Out of Demarcation |
| * Skin Causticity | Demarcation-2 |
| * Serious Eye Damage, Eye Acridity | Demarcation-2A |
| * Respiratory Sensitivity | Not Classifiable |
| * Skin Sensitivity | Not Classifiable |
| * Genital Cell Mutagenicity | Out of Demarcation |



| | |
|--|--------------------|
| * Oncogenicity | Out of Demarcation |
| *Reproductive Toxicity | Not Classifiable |
| * Particular Target Organ - Single exposure (Chest) | Demarcation-2 |
| * Particular Target Organ - Single exposure (Respiratory Passage) | Demarcation-3 |
| * Particular Target Organ - Multiple exposure | Demarcation-1 |
| * Aspiration Respiratory Toxicity | Out of Demarcation |

XII. Environmental Effect Information:

| | |
|---|---------------|
| * Aqueous Environment Acute Hazardousness | Demarcation-3 |
| * Aqueous Environment Chronic Hazardousness | Demarcation-3 |

XIII. Caution on Disposal:

| | |
|--------------------------------------|---|
| * Residual Wastage | Follow relative regulations and standards of local government. Entrust industrial waste disposer who is authorized by prefectural governor or local public authority who has a disposal service. Such entrustment for disposal of wastage shall be done upon well explanation of hazardous nature and toxicity to the disposer. |
| * Contaminated container and packing | Contaminated container must be cleaned for recycle or adequately disposed in accordance with the relative regulation and the standard of local government. For disposal of empty container, contents must be removed completely. |

XIV. Caution on Transportation:

| | | |
|-----------------------------|--|--|
| * International Regulation: | UN Classification Marine Pollutant | N/A Oil Discharge Regulation |
| * Domestic Regulation: | On-land Regulation Marine Regulation Aviation Regulation | Follow Fire Defense Law Follow Ship Safety Act Follow Aviation Law |
| * Special Safety Measure: | Refrain from transporting under high temperature such as direct sun lighting, etc. Packing carefully to have no damage nor corrosion nor leakage nor loose packing. Refrain from piling up heavy cargo | |



XV. Applicable Law:

* Hazardous Goods under Fire Act:

Not Applicable (however, designated flammable solid under Fire Act shall be applied)

* Industrial Safety and Health Act:

Article #57-2, Enforcement Order #18-2
Ordinance on the Prevention of Organic Solvent Poisoning
3rd Class Organic Solvent, etc
(mineral turpentine 15% contained)

XVI. Other Information:

* Referenced Documents:

- 1). JIS Z 7252 2009 [Classification method on chemical Substances per GHS]...Japanese Standard Association(JSA)
 - 2). [Globally Harmonized System of Classification and labeling Of Chemicals (GHS)] Rev. 2, UN publication
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Note: This document is issued by the information which is available at this moment, and does not cover all information. Therefore, careful handling of this product is required. Information about contained amount, physical chemical substance, hazardous toxicity, etc shall be treated as a reference but does not provide a guarantee in any aspects. Notices in this document are stated assuming normal handling. For any special or abnormal handling, follow to the relevant safety measure(s) in accordance to the actual application or purpose.