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Safety Data Sheet

Issue: Nov. 15, 2010
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I. Product Information:

* Product Name: Pikal Metal polish(Liquid type)
 * Product Code: 11100 12100 13100 16000 17000 17110
 * Manufacturer: Nihon Maryo Kogyo Co., Ltd.
 Address: 3-23-15 Takanawa, Minato-ku, Tokyo, 108-0074, Japan
 Sales Department
 Telephone Number: 03-3441-6231
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 Emergency Tel Number: Ohmori Plant/Production Dept.
 Tel: 03-3762-1666
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 * Recommended Application: Metal Polishing

II. Hazard Identification:

* GHS Classification:

Hazard Class	Hazard Category	Signal Word	Pictogram
Flammable Liquid	Category-4	Warning	--
Skin Corrosion/Irritation	Category-2	Warning	
Serious Eye Damage/Eye Irritation	Category-2B	Warning	--
Carcinogenicity	Category-2	Warning	
Specific Target Organ Toxicity(Repeated Exposure)	Category-1	Danger	

Label element

*Pictogram:



*Signal word: Danger

* Hazard statement:

- ① H227 **Combustible liquid**
- ② H315 **Causes skin irritation**
- ③ H320 **Causes eye irritation**
- ④ H351 **Suspected to causing cancer**
- ⑤ H372 **Causes damage to organs**

*Precautionary statement:



General (Consumer products)

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

Safety

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash ... thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

First-Aid

- P302 + P352 IF ON SKIN: Wash with plenty of water/soap/...
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P315 Get immediate medical advice/attention.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P314 Get medical advice/attention if you feel unwell.
- P370 + P378 In case of fire: Use Carbon dioxide, powder extinguishant, bubble extinguishant, dried sand to extinguish.

Storage

- P405 Store locked up.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal

- P501 Dispose of contents / container to waste in accordance with local / regional / national / international regulations (to be specified).



III. Composition • Information on Ingredient:

* Demarcation of chemical Substance/mixture - Mixture:

Substance Name	Industrial Safety and Health Act notifiable substances		Chemical Management Act	PRTR No.	CAS No.
	Cabinet order #	Content rate %			
Abrasive material(Al ₂ O ₃)	#189	20	1-23	N/A	1344-28-1
Mineral oil(Kerosene)	#380	10	9-1702	N/A	8008-20-6
Xylene (Included in Kerosene)	#136	0.15	3-3	N/A	1330-20-7
Fatty acids ammonium salt	Fatty Acids	N/A	2-608 2-609 2-975	N/A	67701-08-0
	Ammonium Hydroxide		1-314		1336-21-6
Ethylene Glycol	#75	<1	2-230	N/A	107-21-1
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: After well washing by soap, rinse by water. Contaminated clothes shall be taken off immediately and be cleaned before re-use. If abnormal feeling persists, 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, diarrhea, 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 mass disposal, put it in a tightly sealable container and locate that container in a safety place where is banked all around to prevent the contents flowing out.

* 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
- * 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:

* Physical status	Liquid form with creamy white color
* Odor	Characteristic odor
* pH	9 ~ 11(20°C)
*Freezing Point	0°C
* Flashing Point	80°C
* 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(Kerosene) and small amount of ammonia gas are generated

XI. Hazardous Information:

* Acute Toxicity (Oral)	Out of Category
* Acute Toxicity (Percutaneous)	Out of Category
* Acute Toxicity (Dust attraction : Dust, Mist)	Out of Category
* Skin corrosion/irritation	Category -2
* Serious eye damage/eye irritation	Category -2B
* Respiratory sensitization	Not Classifiable
* Skin sensitization	Not Classifiable
* Germ cell mutagenicity	Out of Category
* Carcinogenicity	Category -2
* Reproductive Toxicity	Not Classifiable



* Specific target organ toxicity (single exposure)	Out of Category
* Specific target organ toxicity (repeated exposure)	Category -1
* Aspiration hazard	Out of Category

XII. Environmental Effect Information:

* The Aquatic Environment (Acute Hazard)	Not Classifiable
* The Aquatic Environment (Long-term Hazard)	Not Classifiable

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:

* Inter national Regulation:	UN Classification	N/A
	Marine Pollutant	Oil Discharge Regulation
* Domestic Regulation:	On-land Regulation	Follow Fire Defense Law
	Marine Regulation	Follow Ship Safety Act
	Aviation Regulation	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 liquid under Fire Act shall be applied)
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* Industrial Safety and Health Act:

Article #57, Enforcement Order #18
(Dangerous or Harmful Substances Subject to Be Indicated
their Names, etc)

Aluminum oxide 20% Kerosene 10%

Article #57-2, Enforcement Order #18-2
(Dangerous Articles and Harmful Substances Whose Names,
etc. Should Be Notified)

Aluminum oxide 20% Kerosene 10% Xylene 0.15%

XVI. Other Information:

* Referenced Documents:

- 1). JIS Z 7252 2014 Japanese Standard Association(JSA)
- 2). JIS Z 7253 2012 Japanese Standard Association(JSA)
- 3). [Globally Harmonized System of Classification and labeling
Of Chemicals (GHS)] Rev. 2, UN publication

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.