

SAFETY DATA SHEETSSECTION 1:Identification

Product Name : FINECUT 2500NK
 Supplier's detail
 Name : NEOS Co., Ltd
 Address : 6-2-1 Kano-cho, Chuo-ku, Kobe, JAPAN
 Telephone number : +81 783319381 (Head Office)
 : +81 748753161 (Central Research Laboratory)
 Date prepared : 10 Feb. 2011
 Recommended use of the chemical and restrictions on use : Water soluble metal working fluid.

SECTION 2:Hazard identification

GHS classification
 Physical Hazards
 Flammable liquids : Not classified
 Others : Not applicable or classification not possible
 Human Health Hazards
 Acute toxicity (Oral) : Not classified
 Acute toxicity (Dermal) : Not classified
 Acute toxicity (Inhalation: Gases) : Not applicable
 Acute toxicity (Inhalation: Vapors) : Classification not possible
 Acute toxicity (Inhalation: Dusts or Mists) : Classification not possible
 Skin Corrosion/ irritation : Category 2
 Serious eye damage/ eye irritation : Category 1
 Respiratory sensitization : Classification not possible
 Skin sensitization : Not classified
 Germ cell mutagenicity : Classification not possible
 Carcinogenicity : Not classified
 Reproductive toxicity : Classification not possible
 Specific target organ toxicity-Single exposure : Category 1(Liver),Category 3(Narcotic effects)
 Specific target organ toxicity-Repeated exposure : Category 2(Liver,Blood,Kidney,Central nervous system)
 Aspiration hazard : Classification not possible
 Environmental Hazards
 Acute toxicity to the aquatic environment : Category 2
 Chronic toxicity to the aquatic environment : Not classified
 Label Elements
 Pictogram and Symbol : Health Hazard, Corrosion, Exclamation mark
 Signal word : Health Hazard, Corrosion, Exclamation mark
 Hazard statement : May be harmful if swallowed
 Causes skin irritation
 Causes serious eye damage
 Causes damage to organs(Liver)
 May cause drowsiness or dizziness
 May cause damage to organs(Liver,Blood,Kidney,Central nervous system)through prolonged or repeated exposure
 Toxic to aquatic life
 Precautionary statements
 [Prevention] : Do not handle until all safety precautions have been read and understood.
 Obtain special instructions before use.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.Wear respiratory protection.
 Use only outdoors or in a well-ventilated area.

- Wash hand thoroughly after handling.
 Avoid release to the environment if this is not the intended use.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Do not swallow.
 Do not get in eyes, on skin, or on clothing.
 Do not pressurize empty containers. (May cause explosion.)
 Do not weld, heat, drill or cut the container. (Product residues may cause explosion or ignition.)
 Keep container tightly closed. Do not spill this product at handling.
- [Fire fighting measures] : Extinguish a fire with suitable measures.
- [First aid measures]
 Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Get medical advice/attention if you feel unwell.
- Skin contact : Wash with plenty of soap and water.
 Get medical advice/attention if skin irritation or rash occurs.
 Wash contaminated clothing before reuse.
- Eye contact : Rinse cautiously with water for fifteen minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTER or doctor/physician.
- Ingestion : Rinse mouth.
 Vomit with the large quantity of water if possible.
 Do NOT attempt to give anything by mouth to an unconscious person.
 Get medical advice/attention if you feel unwell.
- If exposed or concerned : Get medical advice/attention if you feel unwell.
 [Storage] : Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
 Keep out of reach of children.
- [Disposal considerations] : Dispose of container and unused contents to in accordance with local/regional/national/international regulations.

SECTION 3:Composition/ information on ingredients

- Classification of the substance : Mixture.
 or mixture
- Chemical name or : Not applicable.
 commercial name
- | Components | Contents |
|---------------------|----------|
| Amines | 20~30% |
| Surfactant | 5~10% |
| Water | 40~50% |
| Dye stuff | <1% |
| Corrosion inhibitor | <1% |
| Fats | 5~10% |
| Organic acids | 10~20% |
- Component(s) used for GHS : 2,2'-Iminodiethanol
 classification

SECTION 4:First aid measures

- Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Get medical advice/attention if you feel unwell.
- Skin contact : Wash with plenty of soap and water.
 Get medical advice/attention if skin irritation or rash occurs.
 Wash contaminated clothing before reuse.
- Eye contact : Rinse cautiously with water for fifteen minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTER or doctor/physician.

- Ingestion : Rinse mouth.
 Vomit with the large quantity of water if possible.
 Do NOT attempt to give anything by mouth to an unconscious person.
 Get medical advice/attention if you feel unwell.
- If exposed or concerned : Get medical advice/attention if you feel unwell.

SECTION 5:Fire fighting measures

- Suitable extinguishing media : Extinguishing powder, Foam, carbon dioxide, sand, water fog.
 Unsuitable extinguishing media : Water jet.
 Specific hazards arising from chemical : Containers may explode in heat of fire.
- Irritating or toxic substances may be emitted upon thermal decomposition.
- Precautions : Move containers from fire area if it can be done without risk.
 Cool containers enough by using volumes of water after fire is extinguished.
- Special protective actions fire fighters : Wear self-contained breathing apparatus.
- Extinguish fire from the windward.

SECTION 6:Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Do not touch or walk through spilled material.
- Isolate hazard area and deny entry.
 Keep unnecessary people away.
 Emergency responders with adequate personal equipment (see also SECTION 8) for cleaning up.
 Do not touch damaged containers or spilled product without proper personal protection.
 Stay up wind.
 Keep out of low areas.
 Ventilate closed spaces before entering.
- Environmental precautions : Prevent spill from entering sewers or drains and contact with soil.
- Decontamination and neutralization techniques : For small spills: Absorb with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container.
 For large spills: Dike for later disposal. Collect liquid in a safe area.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so.
- Prevention of second accident : Prevent spills from entering basement and closed place.
 Immediately eliminate all ignition sources.

SECTION 7:Handling and storage

- Precautions for safe handling : Set up appropriate equipment. Wear appropriate protective equipment. (see also SECTION 8)
 Ventilate by the local/general exhaust system. (see also SECTION 8)
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 prohibit the use of the fire in the surrounding.
 Use only outdoors or in a well-ventilated area.
 Do not eat, drink or smoke when using this product.
 Wash hand thoroughly after handling.
 Do not get in eyes.
 Do not get on skin or clothing. Do not swallow.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 See also SECTION 10.

Conditions for safe storage, including any incompatibilities : Make the structure that water does not put to the floor in storage.
 Set up appropriate equipment for the lighting and ventilation necessary to store, and to handle.
 Keep away from heat and flame.
 Make the floor in storage that does not infiltrate with an appropriate inclination, set up appropriate pool for spilled material.
 Do not contact with incompatible materials.
 Keep container tightly closed. Store in a well-ventilated place. keep cool.
 Store locked up.
 See also SECTION 10.
 Store in a closed/corrosive resistant container.

SECTION 8:Exposure controls/ personal protection

Exposure limits : Not established (by product).
 Exposure limits of ingredient(s)
 Chemical name : 2,2'-Iminodiethanol
 Japan Society for Occupational Health : Not established.
 Health
 ACGIH TLV-TWA : 2mg/m³(absorbed through the skin.)
 ACGIH TLV-STEL : Not established.
 Chemical name : Dicyclohexylamine
 Japan Society for Occupational Health : Not established.
 Health
 ACGIH TLV-TWA : Not established.

Appropriate engineering controls : Eye-wash stations and safety showers should be located in the work area.
 A system of local and /or general exhaust is recommended to keep employee exposure below the air borne exposure limits.
 If mist/dust/fume/gas is generated, a system of local and /or general exhaust is recommended to keep employee exposure below the air borne exposure limits.

Personal protections
 Respiratory protection : Wear appropriate protective equipment for respiratory organ.
 If necessary, wear appropriate mask where exposure is possible.
 Hand protection : Wear appropriate protective gloves.
 If necessary, wear chemical resistant protective gloves where exposure is possible.
 Eye protection : Wear chemical splash goggles and appropriate protective equipments for face.
 Wear chemical splash goggles and a full face shield where splashing is possible.
 Skin protection : Use chemical splash goggles or appropriate face shield.
 If necessary, wear chemical resistant protective clothing and boots where splashing is possible.

Comments : Do not eat, drink or smoke when using this product.
 Wash hand thoroughly after handling.

SECTION 9:Physical and chemical properties

Appearance (physical state, color etc) : Blue liquid.
 Odor : Slightly peculiar odor.
 pH : 9.5(2% solution/water, 25°C)
 Melting point : Not available.
 Boiling point : Not available.
 Flash point : None.
 Lower explosive limit : Not available.
 Upper explosive limit : Not available.
 Vapor pressure : Not available.
 Vapor density (Air=1) : Not available.
 Relative density : 1.06(15°C)

Solubility	: Easily soluble in water at room temperature.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Odor threshold	: Not available.
Evaporation rate (Butyl acetate=1)	: Not available.
Flammability (solid, gas)	: Not available.
Viscosity	: Not available.

SECTION 10:Stability and reactivity

Chemical stability	: Stable at room temperature.
Possibility of hazardous reaction	: Heat is generated reacting with acid. Zinc, aluminum, and these alloys are corroded. Nitrosamine is generated reacting with nitrite.
Conditions to avoid	: Contact with hot surfaces/sparks/open flames/incompatible materials.
Incompatible materials	: Zinc, aluminum and these alloys, nitriles, nitrite, strong oxidizing agents, acids, water-reactivity materials.
Hazardous decomposition products	: Thermal decomposition products may include oxides of carbon, nitrogen and sulfur.

SECTION 11:Toxicological information

Acute toxicity (oral)	: This product is classified into Category 5 based on the acute toxicity estimate(ATE) calculated from acute toxicity value of ingredients. However, the total concentration of ingredient(s) with unknown acute toxicity is about 30%.
Acute toxicity (dermal)	: This product is classified into Not classified based on the acute toxicity estimate(ATE) calculated from acute toxicity value of ingredients. However, the total concentration of ingredient(s) with unknown acute toxicity is about 30%.
Acute toxicity (inhalation: gases)	: This product is classified into Not applicable. The physical state of this product is liquid.
Acute toxicity (inhalation: vapors)	: This product cannot be classified, because data concerning toxicity of ingredients cannot be obtained.
Acute toxicity (inhalation: dusts, mists)	: This product cannot be classified, because data concerning toxicity of ingredients cannot be obtained.
Skin corrosion/ irritation	: This product is classified into Category 2 based on the toxicity of ingredients. However, the total concentration of ingredient(s) with unknown toxicity is about 30%.
Serious eye damage/ irritation	: This product is classified into Category 1 based on the toxicity of ingredients.
Respiratory sensitization	: This product cannot be classified, because data concerning toxicity of ingredients cannot be obtained.
Skin sensitization	: This product is classified into Not classified based on the toxicity of ingredients. However, the total concentration of ingredient(s) with unknown toxicity is about 30%.
Germ cell mutagenicity	: This product cannot be classified, because data concerning toxicity of ingredients cannot be obtained.
Carcinogenicity	: This product is classified into Not classified based on the toxicity of ingredients. However, the total concentration of ingredient(s) with unknown toxicity is about 30%.
Reproductive toxicity	: This product cannot be classified, because data concerning toxicity of ingredients cannot be obtained.
Specific target organ systemic toxicity-single exposure	: This product is classified into Category 1(Liver), Category 3(Narcotic effects) based on the toxicity of ingredients.
Specific target organ systemic toxicity-repeated exposure	: This product is classified into Category 2(Liver, Blood, Kidney, Central nervous system) based on the toxicity of ingredients. However, the total concentration of ingredient(s) with unknown toxicity is about 30%.
Aspiration hazard	: This product cannot be classified, because data concerning toxicity of ingredients and/or viscosity of this product cannot be obtained.

SECTION 12:Environmental Hazards

toxicity	:	
Hazardous to the aquatic environment-acute hazard	:	This product is classified into Category 2 based on the toxicity of ingredients. However, the total concentration of ingredient(s) with unknown toxicity is about 30%.
Hazardous to the aquatic environment-chronic hazard	:	This product is classified into Not classified based on the toxicity of ingredients. However, the total concentration of ingredient(s) with unknown toxicity is about 30%.
Persistence and degradability	:	No information is available.
Bioaccumulative potential	:	No information is available.
Mobility in soil	:	No information is available.

SECTION 13:Disposal considerations

Unused contents	:	Dispose of contents to in accordance with local/regional/national/international regulations. Notify the processing trader who consign it enough danger and the hazardous property.
Container	:	Container recycles cleanly, or dispose to in accordance with local/regional/national/international regulations. Remove unused contents completely.

SECTION 14:Transport information

UN Number	:	Not regulated.
UN Proper Shipping name	:	Not regulated.
Transport hazard class(s)	:	Not regulated.
Packing group	:	Not regulated.
Other information	:	Keep 40°C or less the container. Pile up without damage. Prevent the collapse of cargo piles. Transport of container to in accordance with local/regional/national/international regulations. (see also SECTION 7)

SECTION 15:Regulatory information

Please treat this product in compliance with federal requirements and local

SECTION 16:Other information

Key literature references and sources	:	The GHS classification result of about 1500 substances by Japanese Government during 2005 and 2006. Website of the Japan Advanced Information Center of Safety and Health.
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