Set Up Date

June 19, 2014 August 01, 2003

# SAFETY DATA SHEET

### [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : PERANAT **SUPPLIER** : Kao Corporation

**ADDRESS** : 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan

DIVISION : Global Chemical Business

TELEPHONE NUMBER : 81-3-5630-7700 **FAX NUMBER** : 81-3-5630-7889 E-MAIL ADDRESS : chemical@kao.co.jp : 81-3-5630-7700 **EMERGENCY TELEPHONE NUMBER** 

RECOMMENDED USE

AND RESTRICTIONS ON USE

## [2.HAZARDS IDENTIFICATION]

**GHS CLASSIFICATION** 

PHYSICAL AND CHEMICAL HAZARDS: Not classified

**HEALTH HAZARDS** 

**ACUTE TOXICITY (Oral)** : Not classified **ACUTE TOXICITY (Dermal)** : Not classified

: Not applicable(Vapours) ACUTE TOXICITY (Inhalation)

SKIN CORROSION / IRRITATION : Not classified SERIOUS EYE DAMAGE / EYE : Not classified

IRRITATION

RESPIRATORY SENSITIZATION : Classification not possible SKIN SENSITIZATION : Classification not possible **GERM CELL MUTAGENICITY** Classification not possible CARCINOGENICITY Classification not possible REPRODUCTIVE TOXICITY : Classification not possible

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE : Classification not possible - REPEATED EXPOSURE : Classification not possible ASPIRATION HAZARD : Classification not possible

**ENVIRONMENTAL HAZARDS** 

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE HAZARD : Not classified - LONG-TERM HAZARD : Not classified

- HAZARDOUS TO THE OZONE : Classification not possible

LAYER

**GHS LABEL ELEMENTS** 

PICTOGRAMS OR SYMBOLS : Not applicable SIGNAL WORD : Not applicable HAZARD STATEMENTS : Not applicable

PRECAUTIONARY STATEMENTS

**PREVENTION** : Wash thoroughly after handling.

If needed, use personal protective equipment as required.

IF IN EYES: Rinse cautiously with water for several minutes. Remove RESPONSE

> contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Gently wash with plenty of water and soap. Call a POISON CENTER or doctor if you feel unwell.

**STORAGE** DISPOSAL **Kao Corporation** Revised Date

SAFE HANDLING ADVICE : Refer to SDS.

[3.COMPOSITION / INFORMATION ON INGREDIENTS] SUBSTANCE OR MIXTURE : Substance

RANGE

INGREDIENTS AND CONCENTRATION: Pentanoic acid, 2-methyl-, 2-methylpentyl ester

CAS RN : 90397-38-9

[4.FIRST-AID MEASURES]

IN CASE OF INHALATION : Remove person to fresh air and keep comfortable for breathing.

IN CASE OF SKIN CONTACT : Gently wash with plenty of soap and water.

IN CASE OF EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IN CASE OF INGESTION : Call a POISON CENTER or doctor if you feel unwell.

[5.FIRE-FIGHTING MEASURES]

SPECIFIC HAZARDS

**EXTINGUISHING MEDIA** : Powder, alcohol-resistant foam, carbon dioxide, sand

NOT SUITABLE EXTINGUISHING

**MEDIA** 

: No information available

: No information available

SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing

media. Fight fire from upwind position if possible.

PROTECTION OF FIRE FIGHTERS Use goggles in combination with dust mask, and other protections as

appropriate to situation.

[6.ACCIDENTAL RELEASE MEASURES]

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND **EMERGENCY PROCEDURE** 

: Use goggles and protective gloves. Large spills: Remove person to safety.

Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS** 

METHODS FOR CLEANING UP

: Do not discharge into the drains, surface waters or ground water directly. Small spills: Absorb spills with sand, inert absorbent, waste cloth or

sawdust. Then wipe up remainder in waste cloth.

Large spills: Dike spills and dispose of in safe area.

PREVENTION OF SECONDARY

**HAZARDS** 

: Keep away from sources of ignition and prepare extinguishing media.

[7.HANDLING AND STORAGE]

**HANDLING** 

**TECHNICAL MEASURES** : Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower.

**PRECAUTIONS** : Keep away from source of ignition.

SAFE HANDLING ADVICE : Use an adequate ventilation. Wash thoroughly after handling.

If needed, use personal protective equipment as required.

**STORAGE** 

SUITABLE STORAGE CONDITIONS : Store container tightly closed in well-ventilated place.

Keep away from source of ignition.

SAFE PACKAGING MATERIALS : No information available

[8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

**ENGINEERING MEASURES** : Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower.

Use an adequate ventilation.

**Kao Corporation** 

LIMIT VALUES

ACGIH (TLV) : Not established OSHA (PEL) : Not established

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use as appropriate to situation.

HAND PROTECTION : Rubber gloves **EYE PROTECTION** : Safety glasses SKIN AND BODY PROTECTION : Full-body suit

HYGIENE MEASURES : No information available

#### [9.PHYSICAL AND CHEMICAL PROPERTIES]

**APPEARANCE** 

PHYSICAL STATE : Liquid

**COLOUR** : Colorless clear **ODOUR** : Characteristic odour : Not applicable pΗ SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

**BOILING POINT** : No information available **MELTING POINT** : No information available

**FLASH POINT** ٥С 210.2 °F) (CLEVELAND open cup method)

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE : UPPER LIMIT : No information available LOWER LIMIT : No information

**LIMITS** available

VAPOUR PRESSURE : No information available VAPOUR DENSITY No information available

25 °C) ( **DENSITY (SPECIFIC GRAVITY)** 77 °F) 0.857 g/mL (

**SOLUBILITY** 

WATER SOLUBILITY Poor

**SOLVENT SOLUBILITY** : Soluble in ethyl alcohol PARTITION COEFFICIENT: n-: No information available

OCTANOL / WATER (log Pow)

**AUTO-IGNITION TEMPERATURE** : No information available **DECOMPOSITION TEMPERATURE** : No information available **ODOUR THRESHOLD** : No information available **EVAPORATION RATE** : No information available FLAMMABILITY (SOLID, GAS) : No information available VISCOSITY : No information available OTHER DATA : No information available

[10.STABILITY AND REACTIVITY]

CHEMICAL STABILITY : Stable in general. POSSIBILITY OF HAZARDOUS : Stable in general.

REACTIONS

CONDITIONS TO AVOID : No information available INCOMPATIBLE MATERIALS : No information available

HAZARDOUS DECOMPOSITION : Carbon dioxide

**PRODUCTS** 

**OTHERS** : No information available KCDS-No 102230-04 **PERANAT** 4 / 5 Revised Date June 19, 2014

**Kao Corporation** 

[11.TOXICOLOGICAL INFORMATION]

**ACUTE TOXICITY** 

Oral

INFORMATION ON PRODUCT : Rat, LD50 : > 2000 mg/kg

Dermal

INFORMATION ON PRODUCT : No information available

Inhalation

INFORMATION ON PRODUCT : No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : Slightly hazardous in case of skin contact (irritant).

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Non-irritating to the eyes.

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available

SKIN

INFORMATION ON PRODUCT : No information available

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : Non-mutagenic

CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

**IARC** : Not listed NTP : Not listed EU : Not listed **OSHA** : Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available

ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available OTHER INFORMATION : No information available

[12.ECOLOGICAL INFORMATION]

**ECOTOXICITY** : Brachydanio rerio (zebra-fish), 96h, LC50 : > 100 mg/L

PERSISTENCE / DEGRADABILITY : Readily biodegradable MOBILITY IN SOIL : No information available BIOACCUMULATIVE POTENTIAL : No information available OTHER ADVERSE EFFECTS : No information available

[13.DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE (Section 7)".

Passed to a licensed waste contractor.

Dispose of waste in accordance with local, state and federal regulations.

[14.TRANSPORT INFORMATION]

Follow all regulations in your country or region

#### INTERNATIONAL REGULATIONS

UN CLASS / UN NUMBER : Not applicable (IMDG, IATA)

SPECIAL PRECAUTIONS FOR USER : Review "ACCIDENTAL RELEASE MEASURES (Section 6)".

Review "HANDLING AND STORAGE (Section 7)". Ensure containers without breakage or leakage.

Ensure containers tightly fixed.

Follow all regulations in your country or region.

Keep away from source of ignition.

### [15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES : ENCS(Japan) 2-782

TSCA(USA) Yes

EINECS(EU) 291-418-4

AICS(Australia) Yes
DSL(Canada) Yes

ECL(Korea) KE-24711

PICCS(Philippines) Yes IECSC(China) Yes

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

#### [16.OTHER INFORMATION]

REFERENCE : -Safety data sheet for chemical products - Part 1: Content and order of

sections(ISO 11014-1)

-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another ,in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.