

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : NOPMAX KA-223
SUPPLIER
NAME : SAN NOPCO LIMITED.
ADDRESS : 31-1, Shinpomachi, Tokai-city, Aichi Pref. 476-0005 JAPAN
DEPARTMENT : Quality Assurance Dept.
TELEPHONE NUMBER (INFORMATION) : +81-3-3500-3501 (Tokyo Sales Dept.)
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FAX NUMBER (INFORMATION) : +81-52-604-0149
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RECOMMENDED USES : Adhesion Improver for Industry
SDS No. : 623640501

2. HAZARD IDENTIFICATION (Follow all regulation in your country.)

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

PHYSICAL HAZARDS

FLAMMABLE LIQUID : Category 4

HEALTH HAZARDS

ACUTE TOXICITY (ORAL) : Classification not possible

ACUTE TOXICITY (SKIN) : Classification not possible

ACUTE TOXICITY (INHALATION: GAS) : No classification

ACUTE TOXICITY (INHALATION: VAPOR) : Classification not possible

ACUTE TOXICITY (INHALATION: DUST, MIST) : Classification not possible

SKIN CORROSION / IRRITATION : Classification not possible

SERIOUS EYE DAMAGES / EYE IRRITATION : Category 2

RESPIRATORY SENSITIZATION : Classification not possible

SKIN SENSITIZATION : Classification not possible

GERM CELL MUTAGENICITY : Classification not possible

CARCINOGENICITY : Category 1

REPRODUCTIVE TOXICITY : Category 2

SPECIFIC TARGET ORGAN TOXICITY;
SINGLE EXPOSURE : Classification not possible

SPECIFIC TARGET ORGAN TOXICITY;
REPEATED EXPOSURE : Classification not possible

ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

SHORT-TERM (ACUTE) AQUATIC HAZARDS : Classification not possible

LONG-TERM (CHRONIC) AQUATIC HAZARDS : Classification not possible

HAZARDOUS TO THE OZONE LAYER : Classification not possible

GHS LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS

SYMBOL



SIGNAL WORD

Danger

HAZARD STATEMENT

- Combustible liquid.
- Causes serious eye irritation.
- May cause cancer.
- Suspected of damaging fertility or the unborn child.

PRECAUTIONARY STATEMENTS

[PREVENTION]

- Do not handle until "SAFETY DATA SHEETS" has been read and understood well.
- Keep away from flames and heat.
- Avoid inhaling, swallowing, contact with eyes and skin. Wear safety glasses, gloves and face protection.

[RESPONSE]

- Wash hands and face thoroughly and rinse mouth after handling.
- IN CASE OF FIRE : Use carbon dioxide, dry chemical powder and foam for extinction.
- IN CASE OF MAJOR FIRE : Use foam and a large amount of water fog to extinguish.
- IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.
- IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN : Wash with plenty of soap and water.
- IF IN EYES : Rinse cautiously for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

- IF EXPOSED OR CONCERNED : Get medical advice/attention.

[STORAGE]

- Keep container tightly closed and store in a well-ventilated place.

[DISPOSAL]

- Dispose of contents/container in accordance with national and regional regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS (The contents are representative values.)

SUBSTANCE/MIXTURE : Mixture

COMMON NAME(S),SYNONYM(S) OF THE SUBSTANCE

: Mixture of blocked urethane resin, diisononylphthalate, 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (TMPB), etc.

UNIQUE IDENTIFIERS FOR THE SUBSTANCE

: Proprietary

COMPONENTS AND CONTENTS

: Trade secret

COMPONENTS WHICH CONTRIBUTE TO THE CLASSIFICATION OF THE SUBSTANCE AND HAZARDOUS INGREDIENT (S) – JAPANESE REGULATION-

	Wt.%
: Diisononylphthalate	37%
2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate (TMPB)	18%
Impurity	0.5%

4. FIRST AID MEASURES

- IF INHALED : · Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention, if you are experiencing respiratory symptoms.
- IF ON SKIN : · Wipe with the soft paper or the cloth, etc. Wash with plenty of soap and water. Get medical advice/attention, if necessary.

- IF IN EYES : ·Rinse cautiously for 15 minutes or more. Get medical advice/attention immediately.
- IF SWALLOWED : ·After rinsing mouth immediately, give ca. 250ml of milk or water. Get medical advice/attention immediately. Do not induce vomiting.
·Do not give anything by mouth to the victim when not conscious.
·Vomiting is dangerous, because includes volatile substance.
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5. FIRE-FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water fog
UNSUITABLE EXTINGUISHING MEDIA : Water jet

SPECIFIC EXTINCTION METHOD

- : ·Eliminate all ignition sources, and use suitable extinguishing media.
·Spray water on the surrounding equipment for cooling.

SPECIAL PROTECTIVE ACTION FOR FIRE- FIGHTERS

- : ·Extinguish from the windward to prevent poisonous gas from being inhaled.
·Appropriate protective equipment (gloves, glasses, and mask) must be worn.
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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- : ·Wear appropriate protective equipment (gloves, safety goggle, etc.).
·Use only non-sparking tools.
·The spilled area is slippery.

ENVIRONMENTAL PRECAUTIONS

- : ·Do not allow spillage out into the environment causing pollution e.g., rivers, waterways.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- : ·Keep away from ignition sources and prepare a fire extinguishing agent.
·Contain spillage by making on embankment of earth, sand, etc., and collect into container(s) by shoveling or vacuuming and take precautionary measures against static discharge.
·In case of small spillage, absorb with sand, sawdust, etc.
·In case of very small spillage, wipe clean with the rag, etc.
·Keep container with collected material tightly closed until dispose. Waste should be disposed of as described in chapter "13. DISPOSAL CONSIDERATIONS".
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7. HANDLING AND STORAGE

HANDLING

TECHNICAL MEASURES

- : ·Handle in a well-ventilated area. Wear safety glasses, gloves and face protection, etc. Avoid direct contact.
·Set local exhaust or general ventilation of as described in chapter "8. EXPOSURE CONTROLS/PERSONAL PROTECTION".

PRECAUTIONS FOR SAFE HANDLING

- : ·Wash hands and face thoroughly and rinse mouth after handling.
·In case to wash work clothes, gloves, shoes, etc. contaminated with the product, avoid contact with clothes.

CONTACT AVOIDANCE

- : ·Avoid contact with strong oxidizing agents, etc.
·Keep fire away.
·Avoid to inhale toxic gas occurs because blocked agent blockading the end isocyanate group comes off at more than 80 °C.

STORAGE

CONDITIONS FOR SAFE STORAGE

- : ·Keep container tightly closed and store in a well-ventilated place.
- Set up a Keep Fire Away-No Visitors sign.

PACKAGING MATERIAL

- : ·Store in original containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

ACGIH : Not established (1)

APPROPRIATE ENGINEERING CONTROLS

- : ·Establish the adequate local exhauster.
- Should handle in the closed unit.
- Use explosion-proof equipment and take precautionary measures against static discharge.
- Establish eye washing and body washing facilities near the work areas.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : ·Not required under normal conditions.
 HAND PROTECTION : ·Impervious gloves
 EYE/FACE PROTECTION : ·Safety glasses or goggle
 SKIN AND BODY PROTECTION : ·Appropriate protective equipment (e.g. impermeable gloves, protective boots, etc.)

9. PHYSICAL AND CHEMICAL PROPERTIES (representative values)

APPEARANCE (at 20°C)

PHYSICAL STATE : Liquid
 COLOR : Pale yellow
 ODOR : Specific odor

MELTING POINT/FREEZING POINT

: (Freezing point)Below -10°C (14°F)

BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE

: 248°C(478°F) (2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate) (2)

FLAMMABILITY : No data

LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT

: No data

FLASH POINT : 62°C (143.6°F) (Seta Closed Cup)

AUTO-IGNITION TEMPERATURE

: 390°C (734°F) (2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate) (2)

DECOMPOSITION TEMPERATURE

: No data

pH : No data

KINEMATIC VISCOSITY : 15000mPa·s(at 25°C)(Viscosity)

SOLUBILITY

WATER SOLUBILITY : Insoluble
 SOLUBLE SOLVENT : Toluene, Xylene, Ethyl acetate···Soluble

PARTITION COEFFICIENT N-OCTANOL/WATER (LOG VALUE)

: No data

VAPOUR PRESSURE : No data

DENSITY AND/OR RELATIVE DENSITY

: 1.03(at 25°C)(Specific gravity)

RELATIVE VAPOUR DENSITY

: No data

PARTICLE CHARACTERISTICS

: No data

10. STABILITY AND REACTIVITY

REACTIVITY	: No data
CHEMICAL STABILITY	: Stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	: Reacts with strong oxidizing agents, etc. If this product is heated to a high temperature, React readily with compounds that have active hydrogen, such as amines, alcohols and water. Polymerize and generates heat in the presence of basic compounds and some kinds of metal compounds, etc.
CONDITION TO AVOID	: Heat
INCOMPATIBLE MATERIALS	: Strong oxidizing agents, etc. Basic compounds and some kind of metal compounds, etc.
HAZARDOUS DECOMPOSITION PRODUCTS	
	: No data
OTHERS	: No data

11. TOXICOLOGICAL INFORMATION (DATA for this product or similar product.)

ACUTE TOXICITY [ORAL]	: Classification not possible	
No data		
ACUTE TOXICITY [SKIN]	: Classification not possible	
No data		
ACUTE TOXICITY [INHALATION: GAS]	: No classification	
Not classified by the GHS definition of gas.		
ACUTE TOXICITY [INHALATION: VAPOR]	: Classification not possible	
No data		
ACUTE TOXICITY [INHALATION: DUST, MIST]	: Classification not possible	
No data		
SKIN CORROSION / IRRITATION	: Classification not possible	
No data		
SERIOUS EYE DAMAGE/EYE IRRITATION	: Category 2	
[Impurity] Category 1		(3)
[2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate] Category 2B		(3)
RESPIRATORY SENSITIZATION	: Classification not possible	
No data		
SKIN SENSITIZATION	: Classification not possible	
[Impurity] Category 1		(3)
GERM CELL MUTAGENICITY	: Classification not possible	
No data		
CARCINOGENICITY	: Category 1	
[Impurity] Category 1B		(3)
REPRODUCTIVE TOXICITY	: Category 2	
[Impurity] Not classified		(3)
[Diisononylphthalate] Category 2		(3)
SPECIFIC TARGET ORGAN TOXICITY –SINGLE EXPOSURE	: Classification not possible	
No data		
SPECIFIC TARGET ORGAN TOXICITY –REPEATED EXPOSURE	: Classification not possible	
No data		
ASPIRATION HAZARD	: Classification not possible	
No data		

12. ECOLOGICAL INFORMATION (DATA for this product or similar product.)

SHORT-TERM (ACUTE) AQUATIC HAZARDS	: Classification not possible
ECOTOXICITY	: No data
LONG-TERM (CHRONIC) AQUATIC HAZARDS	: Classification not possible
PERSISTENCE AND DEGRADABILITY	: No data
BIOACCUMULATION POTENTIAL	: No data
MOBILITY IN SOIL	: No data
OTHER DATA	: No data
HAZARDOUS TO THE OZONE LAYER	: Classification not possible
	No data

13. DISPOSAL CONSIDERATIONS

·Dispose of contents/container in accordance with national and regional regulations.

14. TRANSPORT INFORMATION

UN NUMBER	: Not applicable
PROPER SHIPPING NAME	: Not applicable
UN CLASS	: Not applicable
PACKING GROUP	: -
ENVIRONMENTAL HAZARDS	: Not applicable
INTERNATIONAL REGULATIONS	
LAND	: Transport in accordance with national and regional regulations (RID, ADR, DOT, etc.)
SEA	: Transport in accordance with IMDG Code.
AIR	: Transport in accordance with ICAO-TI/IATA-DGR.
EMERGENCY RESPONSE GUIDELINE NUMBER	: 128

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS

UNITED STATES INVENTORY (TSCA 8B)	: All components are listed or authorized to exempt from registration.
CANADA INVENTORY (DSL)	: Not listed
AUSTRALIA INVENTORY (AIIIS)	: Not listed
CHINA INVENTORY (IECSC)	: Contact our Sales Department.
JAPAN INVENTORY (ENCS)	: All components are listed or authorized to exempt from registration.
PHILIPPINES INVENTORY (PICCS)	: All components are listed or authorized to exempt from registration.
KOREA INVENTORY (ECL)	: Not listed

16. OTHER INFORMATION

REFERENCES

- (1) TLVs and BEIs, ACGIH, 2023
- (2) SDS of supplier
- (3) Results of the GHS classification, National Institute of Technology and Evaluation (NITE)

* All specifications which were created based on the information which was available at the time and may be revised at anytime according to new information.

* To the best of our knowledge, the information contained herein is accurate. However, SAN NOPCO LIMITED assumes no liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown health hazards and should be used with caution. Final determination of suitability of any material is the sole responsibility of the user.

CONTACT
COMPANY : SAN NOPCO LIMITED
DEPARTMENT : Sales Department

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