

# Material Safety Data Sheet

PRODUCT NAME

BD-3

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## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity (Trade Name As Used On Label); BD-3

Recommended use of the chemical and restrictions on use; Belt Silp Preventer

Manufacturer Name /Address;

NABAKEM CORPORATION / 81, Bongjae-gil 63Beon-gil, Dunpo-myeon, Asan-si, Chungcheongnam-do, 31411, Korea


TEL : 82 41 531 7992~6 FAX : 82 41 534 7991

## SECTION 2. HAZARDS IDENTIFICATION

### Hazard · Risk Classification

Hazard Class	Hazard category
Flammable aerosols	1
Flammable gases	1
Gases under pressure	Liquefied gas
Flammable liquids	2
Skin corrosion/irritation	2
Specific target organ toxicity(Single exposure)	3(Narcotic effects)
Aspiration hazard	1
Hazardous to the aquatic environment-Long-term hazard	2

### GHS label elements, including precautionary statements

Category	Indication
Symbol	
Signal word	Danger
Hazard · Risk Statement	H222 Extremely flammable aerosol. H229 Pressurized container: may burst if heated. H220 Extremely flammable gas. H280 Contains gas under pressure; may explode if heated. H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H335 May cause respiratory irritation. H304 May be fatal if swallowed and enters airways.

		H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	Prevention	<p>P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/Bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264 Wash ...thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p>
	Response	<p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...</p> <p>P302+P352 IF ON SKIN: Wash with plenty water/...</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a POISON CENTER/doctor/.../if you feel unwell.</p> <p>P321 Specific treatment (see ... on this label)</p> <p>P331 Do NOT induce vomiting.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 In case of fire: Use ... to extinguish.</p> <p>P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.</p> <p>P381 Eliminate all ignition sources if safe to do so.</p> <p>P391 Collect spillage.</p>
	Storage	<p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P410+P403 Protect from sunlight. Store in a well-ventilated place.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.</p>
	Disposal	<p>P501 Dispose of contents/container to... in accordance with local/regional/national/international regulations (to be specified).</p>

Other hazards which do not result in classification : No information found

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	OTHER NAME	CAS NUMBER	Content (%)
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NAPHTHA (PETROLEUM), HYDRO TREATED LIGHT	-	64742-49-0	38~48
Polyisobutylene	-	9003-27-4	5~15
Distillates(petroleum), hydrotreated heavy paraffinic)	-	64742-54-7	1~5
Propane	-	74-98-6	6~16
Butane	-	106-97-8	24~34

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## SECTION 4. FIRST AID PROCEDURES

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**Eye contact;** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Skin contact;** Immediately flush skin with plenty of water. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse. Take off immediately all contaminated clothing.

**Inhalation;** Move to fresh air. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.

**Ingestion;** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Rinse mouth thoroughly. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Indication of immediate medical attention and notes for physician;** No information found

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## SECTION 5. FIRE-FIGHTING MEASURES

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**Suitable (and unsuitable) extinguishing media;** Use water spray to keep fire exposed containers cool. If substance does ignite, use CO<sub>2</sub>, dry chemical or foam.

**Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products);** No information found

**Special protective equipment and precautions for fire fighters;** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode. Combustion by-products include phosgene and

hydrogen chloride gases. Structural firefighters' clothing provides only limited protection to the combustion products of this material.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions, protective equipment and emergency procedures;** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

**Environmental precautions and protective procedures;** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and materials for containment and cleaning up;**

- **Large Spills:** Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use only non-sparking tools.
- **Small Spills:** Wipe up with absorbent material(e.g. cloth, fleece).

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## SECTION 7. HANDLING AND STORAGE

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**Precautions for safe handling;** Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Conditions for safe storage (including any incompatibilities);** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed

until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

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## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Control parameters (e.g. occupational exposure limit values, biological limit values);**

Butane; TWA 1000 ppm

**Engineering controls;** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Personal protective equipment;**

– **Eye / face protection;** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Recommended: splash goggles.

– **Skin protection;** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat.

– **Respiratory protection;** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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## SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

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**Appearance;** Light yellow transparent liquid

**Odor;** hydrocarbon odor

**Odour threshold;** No information found

**pH;** No information found

**Melting point/freezing point;** No information found

**Initial boiling point and boiling range;** Liquid; 91 °C ~ 98 °C

**Flash point;** <-105°C (c.c.)(Propane) / Liquid; >-4°C

**Evaporation rate;** No information found

**Flammability (solid, gas);** No information found

**Upper/lower flammability or explosive limits;** Liquid; 1.1~6.6

**Vapour pressure;** No information found

**Vapour density;** No information found

**Specific Gravity (H<sub>2</sub>O = 1);** 0.72 ± 0.05

**Relative density;** No information found

**Solubility(ies);** Insoluble

**Partition coefficient; n-octanol/water;** No information found

**Auto-ignition temperature;** No information found

**Decomposition temperature;** No information found

**Viscosity;** No information found

**Molecular Weight;** No information found

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## SECTION 10. STABILITY AND REACTIVITY

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**Chemical stability and possibility of hazardous reactions;** Stable under ordinary conditions of use and storage

**Conditions to avoid (e.g. static discharge, shock or vibration, etc);** Heat, flame, ignition sources, light, moisture, incompatibles.

**Incompatibility (Materials to Avoid);** Oxidizing agent

**Hazardous Decomposition Products;** carbon oxide

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## SECTION 11. TOXICOLOGICAL INFORMATION

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– Distillates(petroleum), hydrotreated heavy paraffinic –

**Information on the likely routes of exposure;** No information found

**Acute toxicity**

– **Oral;** LD50 > 15000 mg/kg Rat

– **Dermal;** LD50 > 5000 mg/kg Rabbit

– **Inhalation;** No information found

**Skin corrosion/irritation;** No information found

**Serious eye damage/irritation;** No information found

**Respiratory or skin sensitization;** No information found

**Germ cell mutagenicity;** No information found

**Carcinogenicity;** No information found

**Reproductive toxicity;** No information found

**Specific target organ toxicity (single exposure);** No information found

**Specific target organ toxicity (repeated exposure);** No information found

**Aspiration hazard;** No information found

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## SECTION 12. ECOLOGICAL INFORMATION

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**Aquatic and terrestrial ecotoxicity;** No information found

**Persistence and degradability;** No information found

**Bioaccumulative potential;** No information found

**Mobility in soil;** No information found

**Other adverse effects;** No information found

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## SECTION 13. DISPOSAL CONSIDERATION

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Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## SECTION 14. TRANSPORT INFORMATION

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Proper Shipping Name; Aerosols

Class No 2.1

UN-NUMBER; 1950

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## SECTION 15. REGULATORY INFORMATION

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Follow all regulation in your country

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## SECTION 16. OTHER INFORMATION

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**Issuing date;** 2009.01.15

**Revision number and date;** 2023.01.09

**Others;** This information has been faithfully prepared on the basis of various knowledge and information and is not to guarantee the quality of this product. Also, this information can be changed without prior

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notice in accordance with introduction of new knowledge and test results, etc. For inquiries, please contact us or the place of product purchase.