# Safety Data Sheet

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| **Document Group:** | 20-1087-4 | **Version Number:** | 2.00 |
| **Issue Date:** | 2023/12/18 | **Supercedes Date:** | 2021/07/07 |

This Safety Data Sheet has been prepared in accordance with the 'Regulation of Labelling and Hazard Communication of Hazardous Chemicals'

## SECTION 1: Identification

**1.1. Chemicals Name**
Nexcare™ Liquid Bandage Spray (LBS118-03, LBS-118, N18S01, 5203.528)

**Other Names:**None

**1.2. Recommended use and restrictions on use**

**Recommended use**
Skin protectant barrier film.

**1.3. Details of the supplier of the safety data sheet**

| | |
|---|---|
| **Name:** | 3M Taiwan LTD |
| **ADDRESS:** | 3F., No. 198, Jingmao 2nd Rd., Nangang Dist., Taipei City 115018, Taiwan |
| **Telephone:** | (02) 2785-9338 |
| **Website:** | www.3m.com.tw |

**1.4. Emergency telephone number**
**Emergency Telephone:**886-3-4783600
**Fax number:**(03) 475-0924, 475-0904

## SECTION 2: Hazard identification

**2.1. Classification of the substance or mixture**
Flammable Liquid: Category 2.
Aspiration Hazard: Category 1.
Acute Aquatic Toxicity: Category 1.
Chronic Aquatic Toxicity: Category 1.

**2.2. Label elements**
**SIGNAL WORD**
Danger

**Symbols**
Flame |Health Hazard |Environment |

**Pictograms**

**Hazard Statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapor. |
| H304 | May be fatal if swallowed and enters airways. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS**

**General:**

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

**Prevention:**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P273 | Avoid release to the environment. |

**Response:**

| | |
|---|---|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P331 | Do NOT induce vomiting. |
| P370 + P378 | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish. |

**Storage:**

| | |
|---|---|
| P405 | Store locked up. |

**Disposal:**

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |

**2.3. Other hazards**

None known

## SECTION 3: Composition/information on ingredients

**Pure Material:** Not Applicable

This material is a mixture.

Chemical Properties: Refer to Section 9 of this SDS

| Hazardous Ingredient Names | C.A.S. No. | % by Wt |
|---|---|---|
| Isooctane | 540-84-1 | 5 - 15 |

| Other Ingredient Names* | C.A.S. No. | % by Wt |
|---|---|---|
| Hexamethyldisiloxane | 107-46-0 | 70 - 90 |

| | | |
|---|---|---|
| Acrylate Terpolymer | Trade Secret | 3 - 10 |
| Polyphenylmethylsiloxane Copolymer | 70131-69-0 | 0.1 - 5 |

*The ingredients in this table are either: 1) not classified as hazardous, or 2) do not contribute to hazard classification according to CNS15030 based on defined classification thresholds.

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation:**
Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**
If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**
If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

**If Swallowed:**
Do not induce vomiting. Get immediate medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing).

**4.3. Advice to protect the rescuer and special warning to doctors**
Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment.

**4.4. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**5.2. Special hazards arising from the substance or mixture**
Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |

**5.3. Special protective actions for fire-fighters**
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**5.4. Special equipment for the protection of fire-fighters**

No information is available.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**
Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**
Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

**7.2. Conditions for safe storage including any incompatibilities**
Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|---|---|---|---|
| Octane | 540-84-1 | ACGIH | TWA:300 ppm | |
| Octane | 540-84-1 | Taiwan OELs | TWA(8 hours):1400 mg/m3(300 ppm);STEL(15 minutes):1400 mg/m3(375 ppm) | |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines

Taiwan OELs : Taiwan. OELs (Standards of Permissible Exposure Limits at Workplace)
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
ppm: parts per million
mg/m3: milligrams per cubic metre
CEIL: Ceiling

**Biological limit values**
No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

Eye protection not required.

**Skin/hand protection**
No protective gloves required.

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

**8.3. Hygiene Measures**
See Section 7.1 Precautions for safe handling

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid |
| **Color** | Colorless |
| **Odor** | Slight Odor, Odorless |
| **Odor threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *Not Applicable* |
| **Boiling point/Initial boiling point/Boiling range** | 100 ºC [*Test Method:*Tested per ASTM protocol] |
| **Flash Point** | -10 ºC [*Test Method:*Closed Cup] |
| **Evaporation rate** | <=1 [*Test Method:*Tested per ASTM protocol] [*Ref Std:*ETHER=1] |
| **Flammability (solid, gas)** | Not Applicable |
| **Flammable Limits(LEL)** | 0.7 % |
| **Flammable Limits(UEL)** | 18.3 % |
| **Vapor Pressure** | < 186,158.4 Pa [@ 55 ºC ] |

| | |
|---|---|
| **Vapor Density and/or Relative Vapor Density** | *Not Applicable* |
| **Density** | 0.78 g/ml |
| **Relative Density** | 0.78 [*Test Method:*Tested per ASTM protocol] [*Ref Std:*WATER=1] |
| **Water solubility** | <=0.1 % [*Test Method:*Tested per ASTM protocol] |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *Not Applicable* |
| **Autoignition temperature** | 351.7 ºC |
| **Decomposition temperature** | *No Data Available* |
| **Viscosity/Kinematic Viscosity** | 5 mPa-s [*Test Method:*Tested per ASTM protocol] |
| **Volatile Organic Compounds** | 720 g/l |
| **Percent volatile** | 88 - 94 % |
| **VOC Less H2O & Exempt Solvents** | *No Data Available* |
| **Molecular weight** | *Not Applicable* |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

**10.2. Chemical stability**
Stable.

**10.3. Possibility of hazardous reactions**
Hazardous polymerization will not occur.

**10.4. Conditions to avoid**
Heat
Sparks and/or flames

**10.5. Incompatible materials**
Strong oxidizing agents

**10.6. Hazardous decomposition products**

| **Substance** | **Condition** |
|---|---|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.**

**11.1. Information on Toxicological effects**

**Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Inhalation:**
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:**
Contact with the skin during product use is not expected to result in significant irritation.

**Eye Contact:**
Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion:**
Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Chronic toxicity or long term toxicity**

**Toxicological Data**
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Inhalation-Dust/Mist(4 hr) | | No data available; calculated ATE >12.5 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Isooctane | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Isooctane | Inhalation-Vapor (4 hours) | Rat | LC50 > 33.5 mg/l |
| Isooctane | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Overall product | Human | No significant irritation |
| Isooctane | Human and animal | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Isooctane | Rabbit | Mild irritant |

**Sensitization:**

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Isooctane | Human | Not classified |

**Respiratory Sensitization**
For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Isooctane | In vivo | Not mutagenic |
| Isooctane | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|
| Isooctane | Inhalation | Not classified for development | Rat | NOAEL 5.6 mg/l | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Isooctane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | not available |
| Isooctane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Isooctane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | not applicable |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Isooctane | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 5.6 mg/l | 12 weeks |
| Isooctane | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 0.2 mg/l | 1 years |
| Isooctane | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL Not available | 4 weeks |
| Isooctane | Ingestion | liver | Not classified | Rat | NOAEL 500 mg/kg/day | 21 days |

**Aspiration Hazard**

| Name | Value |
|---|---|
| Isooctane | Aspiration hazard |

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

## SECTION 12: Ecological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not**

**expected to be available for exposure, or the data is considered not relevant to the material as a whole.**

**12.1. Toxicity**

**Acute aquatic hazard:**
GHS Acute 1: Very toxic to aquatic life.

**Chronic aquatic hazard:**
GHS Chronic 1: Very toxic to aquatic life with long lasting effects.

No product test data available

| Material | Cas # | Organism | Type | Exposure | Test Endpoint | Test Result |
|---|---|---|---|---|---|---|
| Isooctane | 540-84-1 | Water flea | Estimated | 48 hours | EC50 | 0.4 mg/l |
| Isooctane | 540-84-1 | Medaka | Experimental | 96 hours | LC50 | 0.561 mg/l |

**12.2. Persistence and degradability**

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---|---|---|---|---|---|---|
| Isooctane | 540-84-1 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 0 %BOD/ThOD | OECD 301C - MITI (I) |
| Isooctane | 540-84-1 | Experimental Photolysis | | Photolytic half-life (in air) | 8.36 days (t 1/2) | |

**12.3. Bioaccumulative potential**

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---|---|---|---|---|---|---|
| Isooctane | 540-84-1 | Experimental BCF - Fish | 28 days | Bioaccumulation Factor | 540 | OECD305-Bioconcentration |

**12.4. Mobility in soil**
Please contact manufacturer for more details

**12.5 Other adverse effects**
No information available

## SECTION 13: Disposal considerations

**13.1. Disposal methods**
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## SECTION 14: Transport Information

**14.1. International Regulations**

**UN No.:** UN1866

**UN Proper shipping name:** RESIN SOLUTION
**Transportation Class (IMO):** 3 3 Flammable liquid
**Transportation Class (IATA):** 3 3 Flammable liquid
**Packing Group:** II
**Marine pollutant:** Not applicable
**Specific transport measures and precautionary conditions:** Not applicable

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Applicable regulations:**
Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Occupational Safety and Health Act
Roadway Traffic Safety Regulations

**15.2. Global Inventory Status:**
New Zealand. Inventory of Chemicals (NZIoC): Compliant
Toxic Substances Control Act: Not on TSCA, FDA Regulated

## SECTION 16: Other information

**16.1. Literature references**

**Organization that prepared the SDS**

| | |
|---|---|
| **Name:** | 3M Taiwan LTD |
| **Address:** | 3F., No. 198, Jingmao 2nd Rd., Nangang Dist., Taipei City 115018, Taiwan |
| **Telephone Number:** | 886 3 478 3600 #388 |

**Person who prepared the SDS**

| | |
|---|---|
| **Title:** | Product Stewardship, Specialist |
| **Name:** | Sunny Chang |

**Date that the SDS was prepared:**
2023/12/18

**Revision information:**
Section 01: Address information was modified.
Section 01: Emergency telephone information was deleted.
Section 01: Product identification numbers information was deleted.
Section 01: Product name information was modified.
Section 02: TW GHS Classification information was modified.
Section 02: TW Precautionary - General information was modified.
Section 02: TW Precautionary - Prevention information was modified.
Section 02: TW Precautionary - Response information was modified.
Section 02: TW Precautionary - Storage information was modified.
Section 02: TW Symbol Text information was modified.
Section 03: Composition table % by Wt Column heading information was added.
Section 03: Composition table CAS No Column heading information was added.
Section 03: Ingredient table information was deleted.
Section 03: Material is a mixture standard phrase information was deleted.
Section 04: First Aid - Symptoms and Effects (GHS) information was added.

Section 04: First aid for eye contact information information was modified.
Section 04: First aid for skin contact information information was modified.
Section 06: Accidental release clean-up information information was modified.
Section 09: Nanoparticle information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was deleted.
Section 11: Carcinogenicity text information was added.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 16: Preparer's Title information was modified.
Taiwan Section 03: Ingredient table information was added.
Taiwan Section 03: Mixture information was added.
Taiwan Section 03: Not hazardous Ingredient table information was added.
Taiwan Section 03: Not Hazardous Statement information was added.
Taiwan Section 03: Pure Material information was added.
TW Section 01: Emergency telephone information was added.

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**3M Taiwan SDSs are available at www.3m.com.tw**