

# SAFETY DATA SHEET

SDS No.1021-59035

Date

September 28, 2018

1/1 page

---

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Hydrocarbon kit  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1021-59035  
SDS No. : 1021-59035

Research use only.

---

This product is a "Kit", and this includes the following products.

Please refer to the SDS of each product for the hazard information of contents.

- 1) SDS No. 1021-41260 n-Hexacosane
- 2) SDS No. 1021-41280 n-Octacosane
- 3) SDS No. 1021-41300 n-Triacontane
- 4) SDS No. 1021-41320 n-Dotriacontane
- 5) SDS No. 1021-41340 n-Tetratriacontane
- 6) SDS No. 1021-41360 n-Hexatriacontane
- 7) SDS No. 1021-41380 n-Octatriacontane
- 8) SDS No. 1021-41400 n-Tetracontane

# SAFETY DATA SHEET

SDS No.1021-41260

Revised date September 28, 2018 1/4 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : n-Hexacosane  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1021-41260, 1021-59035  
SDS No. : 1021-41260

Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
HAZARD INFORMATION : May cause respiratory tract irritation if inhaled.  
May cause eye, skin and mucous irritations if contact with.  
May be harmful if ingested.  
May induce damage to the lung through prolonged or repeated exposure.  
MOST IMPORTANT HAZARDS : No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : n-Hexacosane  
SYNONYMS : - - -  
CONTENT : 99 %  
CHEMICAL FORMULA : C<sub>26</sub>H<sub>54</sub>  
CAS RN : 630-01-3  
TSCA INVENTORY : Listed  
EINECS No. : Not listed

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT	: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
INGESTION	: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

**5. FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA	: Carbon dioxide, dry chemical powder, foam, water spray
FIRE & EXPLOSION HAZARDS	: Toxic and irritating dust, fumes or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	: Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS	: Avoid raising dust and avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
ENVIRONMENTAL PRECATIONS	: Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
METHODS FOR CLEANING UP	: Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

**7. HANDLING AND STORAGE**

HANDLING	: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
STORAGE	: Store away from sunlight in well-ventilated dry place at room temperature. Keep the product in an original box after use it.
INCOMPATIBLE PRODUCTS	: Strong oxidizers and strong acids

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

ENGINEERING MEASURES	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
VENTILATION	: Local Exhaust ; Recommended, Mechanical(General) ; Recommended
PERSONAL PROTECTION	
RESPRATORY PROTECTION	: Safety mask
HAND PROTECTION	: Chemical resistant gloves
EYE PROTECTION	: Safety glasses(goggles)
SKIN PROTECTION	: Protective clothing
CONTROL PARAMETERS	
OSHA PEL	: Not established
NIOSH REL	: Not established
ACGIH	: Not established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	: White – nearly white
PHYSICAL STATE	: Solid or powder
ODOR	: No data available
pH	: No data available
BOILING POINT	: No data available
MELTING POINT	: 56 - 58 °C
FLASH POINT	: No data available
FLAMMABILITY(solid, gas)	: > 110 °C
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
SPACIFIC GRAVITY (DENSITY)	: No data available
SOLUBILITY IN	: Water : Practically Insoluble, Organic solvents : Slightly soluble
PARTITION COEFFICIENT ; n-octanol/water	: No data available
DECOMPOSITION TEMPERATURE	: No data available

---

**10. STABILITY AND REACTIVITY**

REACTIVITY	: Stable under recommended storage conditions.
CHEMICAL STABILITY	: Stable under recommended storage conditions.
CONDITION TO AVOID	: Sunlight, heat
INCOMPATIBLE MATERIALS	: Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	: CO, CO <sub>2</sub>

---

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY	: No data available
SKIN CORROSION/IRRITATION	: No data available
EYE DAMAGE/EYE IRRITATION	: No data available
RESPIRATORY OR SKIN SENSITIZATION	: No data available
GERM CELL MUTAGENICITY	: No data available
CARCINOGENICITY	: No data available
REPRODUCTIVE TOXICITY	: No data available
SPECIFIC TARGET ORGAN TOXICITY	: No data available
ASPIRATION TOXICITY	: No data available
POTENTIAL HEALTH EFFECTS	
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	: May be harmful if swallowed.
Skin	: May be harmful if absorbed through skin. May cause skin irritation
Eyes	: May cause eye irritation.
ADDITIONAL INFORMATION	
NTP	: Not listed
IARC	: Not listed
OSHA	: Not listed
ACGIH	: Not listed

---

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY	: No data available
BIODEGRADABILITY	: No data available
BIOACCUMULATION POTENTIAL	: No data available
MOBILITY IN SOIL	: No data available
OTHER ADVERSE EFFECTS	: Not listed in Montreal Protocol list.

---

**13. DISPOSAL INFORMATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). After contents are completely removed, dispose of its container at hazardous or special waste collection point (in accordance with local/regional/national/international regulation).

---

**14. TRANSPORT INFORMATION**

IATA	: Not Restricted
ADR/RID	: Not dangerous goods
DOT(Department of Transportation)	: Not a Hazardous Material for DOT shipping
MARINE POLLUTANT	: Yes

---

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION	: OSHA HCS 2012/29 CFR 1910.1200
EU REGULATION	: CLP Regulation ((EC) No. 1272/2008)

---

**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.1021-41280

Revised date September 28, 2018 1/4 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : n-Octacosane  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1021-41280, 1021-59035  
SDS No. : 1021-41280  
Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
HAZARD INFORMATION : May cause respiratory tract irritation if inhaled.  
May cause eye, skin and mucous irritations if contact with.  
May be harmful if ingested.  
May induce damage to the lung through prolonged or repeated exposure.  
MOST IMPORTANT HAZARDS : No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : n-Octacosane  
SYNONYMS : - - -  
CONTENT : 99 %  
CHEMICAL FORMULA : C<sub>28</sub>H<sub>58</sub>  
CAS RN : 630-02-4  
TSCA INVENTORY : Listed  
EINECS No. : 211-125-7

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT	: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
INGESTION	: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

**5. FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA	: Carbon dioxide, dry chemical powder, foam, water spray
FIRE & EXPLOSION HAZARDS	: Toxic and irritating dust, fumes or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	: Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS	: Avoid raising dust and avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
ENVIRONMENTAL PRECATIONS	: Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
METHODS FOR CLEANING UP	: Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

**7. HANDLING AND STORAGE**

HANDLING	: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
STORAGE	: Store away from sunlight in well-ventilated dry place at room temperature. Keep the product in an original box after use it.
INCOMPATIBLE PRODUCTS	: Strong oxidizers and strong acids

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

ENGINEERING MEASURES	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
VENTILATION	: Local Exhaust ; Recommended, Mechanical(General) ; Recommended
PERSONAL PROTECTION	
RESPRATORY PROTECTION	: Safety mask
HAND PROTECTION	: Chemical resistant gloves
EYE PROTECTION	: Safety glasses(goggles)
SKIN PROTECTION	: Protective clothing
CONTROL PARAMETERS	
OSHA PEL	: Not established
NIOSH REL	: Not established
ACGIH	: Not established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	: White – nearly white
PHYSICAL STATE	: Solid or powder
ODOR	: No data available
pH	: No data available
BOILING POINT	: No data available
MELTING POINT	: 60 - 64 °C
FLASH POINT	: No data available
FLAMMABILITY(solid, gas)	: 227 °C
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
SPACIFIC GRAVITY (DENSITY)	: No data available
SOLUBILITY IN	: Water : Practically Insoluble, Organic solvents : Slightly soluble
PARTITION COEFFICIENT	
n-octanol/water	: No data available
DECOMPOSITION TEMPERATURE	: No data available

---

**10. STABILITY AND REACTIVITY**

REACTIVITY	: Stable under recommended storage conditions.
CHEMICAL STABILITY	: Stable under recommended storage conditions.
CONDITION TO AVOID	: Sunlight, heat
INCOMPATIBLE MATERIALS	: Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	: CO, CO <sup>2</sup>

---

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY	: No data available
SKIN CORROSION/IRRITATION	: No data available
EYE DAMAGE/EYE IRRITATION	: No data available
RESPIRATORY OR SKIN SENSITIZATION	: No data available
GERM CELL MUTAGENICITY	: No data available
CARCINOGENICITY	: No data available
REPRODUCTIVE TOXICITY	: No data available
SPECIFIC TARGET ORGAN TOXICITY	: No data available
ASPIRATION TOXICITY	: No data available
POTENTIAL HEALTH EFFECTS	
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	: May be harmful if swallowed.
Skin	: May be harmful if absorbed through skin. May cause skin irritation
Eyes	: May cause eye irritation.
ADDITIONAL INFORMATION	
NTP	: Not listed
IARC	: Not listed
OSHA	: Not listed
ACGIH	: Not listed

---

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY	: No data available
BIODEGRADABILITY	: No data available
BIOACCUMULATION POTENTIAL	: No data available
MOBILITY IN SOIL	: No data available
OTHER ADVERSE EFFECTS	: Not listed in Montreal Protocol list.

---

**13. DISPOSAL INFORMATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). After contents are completely removed, dispose of its container at hazardous or special waste collection point (in accordance with local/regional/national/international regulation).

---

**14. TRANSPORT INFORMATION**

IATA	: Not Restricted
ADR/RID	: Not dangerous goods
DOT(Department of Transportation)	: Not a Hazardous Material for DOT shipping
MARINE POLLUTANT	: Yes

---

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION	: OSHA HCS 2012/29 CFR 1910.1200
EU REGULATION	: CLP Regulation ((EC) No. 1272/2008)



---

**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.1021-41300

Revised date September 28, 2018 1/4 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : n-Triacontane  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1021-41300, 1021-59035  
SDS No. : 1021-41300  
Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
HAZARD INFORMATION : May cause respiratory tract irritation if inhaled.  
May cause eye, skin and mucous irritations if contact with.  
May be harmful if ingested.  
May induce damage to the lung through prolonged or repeated exposure.  
MOST IMPORTANT HAZARDS : No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : n-Triacontane  
SYNONYMS : - - -  
CONTENT : 99 %  
CHEMICAL FORMULA : C<sub>30</sub>H<sub>62</sub>  
CAS RN : 638-68-6  
TSCA INVENTORY : Listed  
EINECS No. : 211-349-5

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT	: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
INGESTION	: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

**5. FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA	: Carbon dioxide, dry chemical powder, foam, water spray
FIRE & EXPLOSION HAZARDS	: Toxic and irritating dust, fumes or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	: Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS	: Avoid raising dust and avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
ENVIRONMENTAL PRECAUTIONS	: Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
METHODS FOR CLEANING UP	: Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

**7. HANDLING AND STORAGE**

HANDLING	: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
STORAGE	: Store away from sunlight in well-ventilated dry place at room temperature. Keep the product in an original box after use it.
INCOMPATIBLE PRODUCTS	: Strong oxidizers and strong acids

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

ENGINEERING MEASURES	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
VENTILATION	: Local Exhaust ; Recommended, Mechanical(General) ; Recommended
PERSONAL PROTECTION	
RESPIRATORY PROTECTION	: Safety mask
HAND PROTECTION	: Chemical resistant gloves
EYE PROTECTION	: Safety glasses(goggles)
SKIN PROTECTION	: Protective clothing
CONTROL PARAMETERS	
OSHA PEL	: Not established
NIOSH REL	: Not established
ACGIH	: Not established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	: White – nearly white
PHYSICAL STATE	: Solid or powder
ODOR	: No data available
pH	: No data available
BOILING POINT	: 258 °C
MELTING POINT	: 64 - 67 °C
FLASH POINT	: No data available
FLAMMABILITY(solid, gas)	: > 110 °C
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
SPECIFIC GRAVITY (DENSITY)	: No data available
SOLUBILITY IN	: Water : Practically Insoluble, Organic solvents : Slightly soluble
PARTITION COEFFICIENT ; n-octanol/water	: No data available
DECOMPOSITION TEMPERATURE	: No data available

---

**10. STABILITY AND REACTIVITY**

REACTIVITY : Stable under recommended storage conditions.  
CHEMICAL STABILITY : Stable under recommended storage conditions.  
CONDITION TO AVOID : Sunlight, heat  
INCOMPATIBLE MATERIALS : Oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS  
: CO, CO<sub>2</sub>

---

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY : No data available  
SKIN CORROSION/IRRITATION : No data available  
EYE DAMAGE/EYE IRRITATION : No data available  
RESPIRATORY OR SKIN SENSITIZATION  
: No data available  
GERM CELL MUTAGENICITY : No data available  
CARCINOGENICITY : No data available  
REPRODUCTIVE TOXICITY : No data available  
SPECIFIC TARGET ORGAN TOXICITY  
: No data available  
ASPIRATION TOXICITY : No data available  
POTENTIAL HEALTH EFFECTS  
Inhalation : May be harmful if inhaled. May cause respiratory tract irritation  
Ingestion : May be harmful if swallowed.  
Skin : May be harmful if absorbed through skin. May cause skin irritation  
Eyes : May cause eye irritation.  
ADDITIONAL INFORMATION  
NTP : Not listed  
IARC : Not listed  
OSHA : Not listed  
ACGIH : Not listed

---

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY : No data available  
BIODEGRADABILITY : No data available  
BIOACCUMULATION POTENTIAL : No data available  
MOBILITY IN SOIL : No data available  
OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

---

**13. DISPOSAL INFORMATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). After contents are completely removed, dispose of its container at hazardous or special waste collection point (in accordance with local/regional/national/international regulation).

---

**14. TRANSPORT INFORMATION**

IATA : Not Restricted  
ADR/RID : Not dangerous goods  
DOT(Department of Transportation) : Not a Hazardous Material for DOT shipping  
MARINE POLLUTANT : Yes

---

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200  
EU REGULATION : CLP Regulation ((EC) No. 1272/2008)

---

**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.1021-41320

Revised date September 28, 2018 1/4 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : n-Dotriacontane  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1021-41320, 1021-59035  
SDS No. : 1021-41320  
Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
HAZARD INFORMATION : May cause respiratory tract irritation if inhaled.  
May cause eye, skin and mucous irritations if contact with.  
May be harmful if ingested.  
May induce damage to the lung through prolonged or repeated exposure.  
MOST IMPORTANT HAZARDS : No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : n-Dotriacontane  
SYNONYMS : - - -  
CONTENT : 99 %  
CHEMICAL FORMULA : C<sub>32</sub>H<sub>66</sub>  
CAS RN : 544-85-4  
TSCA INVENTORY : Listed  
EINECS No. : 208-881-5

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT	: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
INGESTION	: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

## 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	: Carbon dioxide, dry chemical powder, foam, water spray
FIRE & EXPLOSION HAZARDS	: Toxic and irritating dust, fumes or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	: Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	: Avoid raising dust and avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
ENVIRONMENTAL PRECATIONS	: Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
METHODS FOR CLEANING UP	: Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

## 7. HANDLING AND STORAGE

HANDLING	: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
STORAGE	: Store away from sunlight in well-ventilated dry place at room temperature. Keep the product in an original box after use it.
INCOMPATIBLE PRODUCTS	: Strong oxidizers and strong acids

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING MEASURES	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
VENTILATION	: Local Exhaust ; Recommended, Mechanical(General) ; Recommended
PERSONAL PROTECTION	
RESPRATORY PROTECTION	: Safety mask
HAND PROTECTION	: Chemical resistant gloves
EYE PROTECTION	: Safety glasses(goggles)
SKIN PROTECTION	: Protective clothing
CONTROL PARAMETERS	
OSHA PEL	: Not established
NIOSH REL	: Not established
ACGIH	: Not established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: White – nearly white
PHYSICAL STATE	: Solid or powder
ODOR	: No data available
pH	: No data available
BOILING POINT	: 281 °C
MELTING POINT	: 68 - 70 °C
FLASH POINT	: No data available
FLAMMABILITY(solid, gas)	: > 110 °C
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
SPACIFIC GRAVITY (DENSITY)	: No data available
SOLUBILITY IN	: Water : Practically Insoluble, Organic solvents : Slightly soluble
PARTITION COEFFICIENT ; n-octanol/water	: No data available
DECOMPOSITION TEMPERATURE	: No data available

---

**10. STABILITY AND REACTIVITY**

REACTIVITY : Stable under recommended storage conditions.  
CHEMICAL STABILITY : Stable under recommended storage conditions.  
CONDITION TO AVOID : Sunlight, heat  
INCOMPATIBLE MATERIALS : Oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS  
: CO, CO<sub>2</sub>

---

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY : No data available  
SKIN CORROSION/IRRITATION : No data available  
EYE DAMAGE/EYE IRRITATION : No data available  
RESPIRATORY OR SKIN SENSITIZATION  
: No data available  
GERM CELL MUTAGENICITY : No data available  
CARCINOGENICITY : No data available  
REPRODUCTIVE TOXICITY : No data available  
SPECIFIC TARGET ORGAN TOXICITY  
: No data available  
ASPIRATION TOXICITY : No data available  
POTENTIAL HEALTH EFFECTS  
Inhalation : May be harmful if inhaled. May cause respiratory tract irritation  
Ingestion : May be harmful if swallowed.  
Skin : May be harmful if absorbed through skin. May cause skin irritation  
Eyes : May cause eye irritation.  
ADDITIONAL INFORMATION  
NTP : Not listed  
IARC : Not listed  
OSHA : Not listed  
ACGIH : Not listed

---

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY : No data available  
BIODEGRADABILITY : No data available  
BIOACCUMULATION POTENTIAL : No data available  
MOBILITY IN SOIL : No data available  
OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

---

**13. DISPOSAL INFORMATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). After contents are completely removed, dispose of its container at hazardous or special waste collection point (in accordance with local/regional/national/international regulation).

---

**14. TRANSPORT INFORMATION**

IATA : Not Restricted  
ADR/RID : Not dangerous goods  
DOT(Department of Transportation) : Not a Hazardous Material for DOT shipping  
MARINE POLLUTANT : Yes

---

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200  
EU REGULATION : CLP Regulation ((EC) No. 1272/2008)



---

**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.1021-41340

Revised date September 28, 2018 1/4 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : n-Tetratriacontane  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1021-41340, 1021-59035  
SDS No. : 1021-41340

Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
HAZARD INFORMATION : May cause respiratory tract irritation if inhaled.  
May cause eye, skin and mucous irritations if contact with.  
May be harmful if ingested.  
May induce damage to the lung through prolonged or repeated exposure.  
MOST IMPORTANT HAZARDS : No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : n-Tetratriacontane  
SYNONYMS : - - -  
CONTENT : 99 %  
CHEMICAL FORMULA : C<sub>34</sub>H<sub>70</sub>  
CAS RN : 14167-59-0  
TSCA INVENTORY : Listed  
EINECS No. : 238-013-0

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen.  
If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen.  
If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT	: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
INGESTION	: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.
<b>5. FIRE FIGHTING MEASURES</b>	
EXTINGUISHING MEDIA	: Carbon dioxide, dry chemical powder, foam, water spray
FIRE & EXPLOSION HAZARDS	: Toxic and irritating dust, fumes or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	: Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
PERSONAL PRECAUTIONS	: Avoid raising dust and avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
ENVIRONMENTAL PRECATIONS	: Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
METHODS FOR CLEANING UP	: Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.
<b>7. HANDLING AND STORAGE</b>	
HANDLING	: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
STORAGE	: Store away from sunlight in well-ventilated dry place at room temperature. Keep the product in an original box after use it.
INCOMPATIBLE PRODUCTS	: Strong oxidizers and strong acids
<b>8. EXPOSURE CONTROL/PERSONAL PROTECTION</b>	
ENGINEERING MEASURES	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
VENTILATION	: Local Exhaust ; Recommended, Mechanical(General) ; Recommended
<b>PERSONAL PROTECTION</b>	
RESPRATORY PROTECTION	: Safety mask
HAND PROTECTION	: Chemical resistant gloves
EYE PROTECTION	: Safety glasses(goggles)
SKIN PROTECTION	: Protective clothing
<b>CONTROL PARAMETERS</b>	
OSHA PEL	: Not established
NIOSH REL	: Not established
ACGIH	: Not established
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
APPEARANCE	: White – nearly white
PHYSICAL STATE	: Solid or powder
ODOR	: No data available
pH	: No data available
BOILING POINT	: 285 °C
MELTING POINT	: 72 - 75 °C
FLASH POINT	: No data available
FLAMMABILITY(solid, gas)	: > 110 °C
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
SPACIFIC GRAVITY (DENSITY)	: No data available
SOLUBILITY IN	: Water : Practically Insoluble, Organic solvents : Slightly soluble
PARTITION COEFFICIENT ; n-octanol/water	: No data available
DECOMPOSITION TEMPERATURE	: No data available

---

**10. STABILITY AND REACTIVITY**

REACTIVITY	: Stable under recommended storage conditions.
CHEMICAL STABILITY	: Stable under recommended storage conditions.
CONDITION TO AVOID	: Sunlight, heat
INCOMPATIBLE MATERIALS	: Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	: CO, CO <sup>2</sup>

---

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY	: No data available
SKIN CORROSION/IRRITATION	: No data available
EYE DAMAGE/EYE IRRITATION	: No data available
RESPIRATORY OR SKIN SENSITIZATION	: No data available
GERM CELL MUTAGENICITY	: No data available
CARCINOGENICITY	: No data available
REPRODUCTIVE TOXICITY	: No data available
SPECIFIC TARGET ORGAN TOXICITY	: No data available
ASPIRATION TOXICITY	: No data available
POTENTIAL HEALTH EFFECTS	
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	: May be harmful if swallowed.
Skin	: May be harmful if absorbed through skin. May cause skin irritation
Eyes	: May cause eye irritation.
ADDITIONAL INFORMATION	
NTP	: Not listed
IARC	: Not listed
OSHA	: Not listed
ACGIH	: Not listed

---

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY	: No data available
BIODEGRADABILITY	: No data available
BIOACCUMULATION POTENTIAL	: No data available
MOBILITY IN SOIL	: No data available
OTHER ADVERSE EFFECTS	: Not listed in Montreal Protocol list.

---

**13. DISPOSAL INFORMATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). After contents are completely removed, dispose of its container at hazardous or special waste collection point (in accordance with local/regional/national/international regulation).

---

**14. TRANSPORT INFORMATION**

IATA	: Not Restricted
ADR/RID	: Not dangerous goods
DOT(Department of Transportation)	: Not a Hazardous Material for DOT shipping
MARINE POLLUTANT	: Yes

---

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION	: OSHA HCS 2012/29 CFR 1910.1200
EU REGULATION	: CLP Regulation ((EC) No. 1272/2008)

---

**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.1021-41360

Revised date September 28, 2018 1/4 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : n-Hexatriacontane  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1021-41360, 1021-59035  
SDS No. : 1021-41360  
Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
HAZARD INFORMATION : May cause respiratory tract irritation if inhaled.  
May cause eye, skin and mucous irritations if contact with.  
May be harmful if ingested.  
May induce damage to the lung through prolonged or repeated exposure.  
MOST IMPORTANT HAZARDS : No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : n-Hexatriacontane  
SYNONYMS : - - -  
CONTENT : 99 %  
CHEMICAL FORMULA : C<sub>36</sub>H<sub>74</sub>  
CAS RN : 630-06-8  
TSCA INVENTORY : Listed  
EINECS No. : 211-127-8

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT	: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
INGESTION	: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

**5. FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA	: Carbon dioxide, dry chemical powder, foam, water spray
FIRE & EXPLOSION HAZARDS	: Toxic and irritating dust, fumes or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	: Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS	: Avoid raising dust and avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
ENVIRONMENTAL PRECATIONS	: Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
METHODS FOR CLEANING UP	: Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

**7. HANDLING AND STORAGE**

HANDLING	: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
STORAGE	: Store away from sunlight in well-ventilated dry place at room temperature. Keep the product in an original box after use it.
INCOMPATIBLE PRODUCTS	: Strong oxidizers and strong acids

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

ENGINEERING MEASURES	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
VENTILATION	: Local Exhaust ; Recommended, Mechanical(General) ; Recommended
PERSONAL PROTECTION	
RESPRATORY PROTECTION	: Safety mask
HAND PROTECTION	: Chemical resistant gloves
EYE PROTECTION	: Safety glasses(goggles)
SKIN PROTECTION	: Protective clothing
CONTROL PARAMETERS	
OSHA PEL	: Not established
NIOSH REL	: Not established
ACGIH	: Not established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	: White – nearly white
PHYSICAL STATE	: Solid or powder
ODOR	: No data available
pH	: No data available
BOILING POINT	: No data available
MELTING POINT	: 74~76 °C
FLASH POINT	: No data available
FLAMMABILITY(solid, gas)	: > 110 °C
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
SPACIFIC GRAVITY (DENSITY)	: No data available
SOLUBILITY IN	: Water : Practically Insoluble, Organic solvents : Slightly soluble
PARTITION COEFFICIENT ; n-octanol/water	: No data available
DECOMPOSITION TEMPERATURE	: No data available

---

**10. STABILITY AND REACTIVITY**

REACTIVITY : Stable under recommended storage conditions.  
CHEMICAL STABILITY : Stable under recommended storage conditions.  
CONDITION TO AVOID : Sunlight, heat  
INCOMPATIBLE MATERIALS : Oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS  
: CO, CO<sub>2</sub>

---

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY : No data available  
SKIN CORROSION/IRRITATION : No data available  
EYE DAMAGE/EYE IRRITATION : No data available  
RESPIRATORY OR SKIN SENSITIZATION  
: No data available  
GERM CELL MUTAGENICITY : No data available  
CARCINOGENICITY : No data available  
REPRODUCTIVE TOXICITY : No data available  
SPECIFIC TARGET ORGAN TOXICITY  
: No data available  
ASPIRATION TOXICITY : No data available  
POTENTIAL HEALTH EFFECTS  
Inhalation : May be harmful if inhaled. May cause respiratory tract irritation  
Ingestion : May be harmful if swallowed.  
Skin : May be harmful if absorbed through skin. May cause skin irritation  
Eyes : May cause eye irritation.  
ADDITIONAL INFORMATION  
NTP : Not listed  
IARC : Not listed  
OSHA : Not listed  
ACGIH : Not listed

---

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY : No data available  
BIODEGRADABILITY : No data available  
BIOACCUMULATION POTENTIAL : No data available  
MOBILITY IN SOIL : No data available  
OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

---

**13. DISPOSAL INFORMATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). After contents are completely removed, dispose of its container at hazardous or special waste collection point (in accordance with local/regional/national/international regulation).

---

**14. TRANSPORT INFORMATION**

IATA : Not Restricted  
ADR/RID : Not dangerous goods  
DOT(Department of Transportation) : Not a Hazardous Material for DOT shipping  
MARINE POLLUTANT : Yes

---

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200  
EU REGULATION : CLP Regulation ((EC) No. 1272/2008)



---

**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.1021-41380

Revised date September 28, 2018 1/4 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : n-Octatriacontane  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1021-41380, 1021-59035  
SDS No. : 1021-41380  
Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
HAZARD INFORMATION : May cause respiratory tract irritation if inhaled.  
May cause eye, skin and mucous irritations if contact with.  
May be harmful if ingested.  
May induce damage to the lung through prolonged or repeated exposure.  
MOST IMPORTANT HAZARDS : No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : n-Octatriacontane  
SYNONYMS : - - -  
CONTENT : 99 %  
CHEMICAL FORMULA : C<sub>38</sub>H<sub>78</sub>  
CAS RN : 7194-85-6  
TSCA INVENTORY : Listed  
EINECS No. : 230-560-3

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT	: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
INGESTION	: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.
<b>5. FIRE FIGHTING MEASURES</b>	
EXTINGUISHING MEDIA	: Carbon dioxide, dry chemical powder, foam, water spray
FIRE & EXPLOSION HAZARDS	: Toxic and irritating dust, fumes or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	: Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
PERSONAL PRECAUTIONS	: Avoid raising dust and avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
ENVIRONMENTAL PRECATIONS	: Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
METHODS FOR CLEANING UP	: Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.
<b>7. HANDLING AND STORAGE</b>	
HANDLING	: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
STORAGE	: Store away from sunlight in well-ventilated dry place at room temperature. Keep the product in an original box after use it.
INCOMPATIBLE PRODUCTS	: Strong oxidizers and strong acids
<b>8. EXPOSURE CONTROL/PERSONAL PROTECTION</b>	
ENGINEERING MEASURES	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
VENTILATION	: Local Exhaust ; Recommended, Mechanical(General) ; Recommended
<b>PERSONAL PROTECTION</b>	
RESPRATORY PROTECTION	: Safety mask
HAND PROTECTION	: Chemical resistant gloves
EYE PROTECTION	: Safety glasses(goggles)
SKIN PROTECTION	: Protective clothing
<b>CONTROL PARAMETERS</b>	
OSHA PEL	: Not established
NIOSH REL	: Not established
ACGIH	: Not established
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
APPEARANCE	: White – nearly white
PHYSICAL STATE	: Solid or powder
ODOR	: No data available
pH	: No data available
BOILING POINT	: No data available
MELTING POINT	: 77~79 °C
FLASH POINT	: No data available
FLAMMABILITY(solid, gas)	: > 110 °C
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
SPACIFIC GRAVITY (DENSITY)	: No data available
SOLUBILITY IN	: Water : Practically Insoluble, Organic solvents : Slightly soluble
PARTITION COEFFICIENT ; n-octanol/water	: No data available
DECOMPOSITION TEMPERATURE	: No data available

---

**10. STABILITY AND REACTIVITY**

REACTIVITY	: Stable under recommended storage conditions.
CHEMICAL STABILITY	: Stable under recommended storage conditions.
CONDITION TO AVOID	: Sunlight, heat
INCOMPATIBLE MATERIALS	: Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	: CO, CO <sup>2</sup>

---

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY	: No data available
SKIN CORROSION/IRRITATION	: No data available
EYE DAMAGE/EYE IRRITATION	: No data available
RESPIRATORY OR SKIN SENSITIZATION	: No data available
GERM CELL MUTAGENICITY	: No data available
CARCINOGENICITY	: No data available
REPRODUCTIVE TOXICITY	: No data available
SPECIFIC TARGET ORGAN TOXICITY	: No data available
ASPIRATION TOXICITY	: No data available
POTENTIAL HEALTH EFFECTS	
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	: May be harmful if swallowed.
Skin	: May be harmful if absorbed through skin. May cause skin irritation
Eyes	: May cause eye irritation.
ADDITIONAL INFORMATION	
NTP	: Not listed
IARC	: Not listed
OSHA	: Not listed
ACGIH	: Not listed

---

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY	: No data available
BIODEGRADABILITY	: No data available
BIOACCUMULATION POTENTIAL	: No data available
MOBILITY IN SOIL	: No data available
OTHER ADVERSE EFFECTS	: Not listed in Montreal Protocol list.

---

**13. DISPOSAL INFORMATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). After contents are completely removed, dispose of its container at hazardous or special waste collection point (in accordance with local/regional/national/international regulation).

---

**14. TRANSPORT INFORMATION**

IATA	: Not Restricted
ADR/RID	: Not dangerous goods
DOT(Department of Transportation)	: Not a Hazardous Material for DOT shipping
MARINE POLLUTANT	: Yes

---

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION	: OSHA HCS 2012/29 CFR 1910.1200
EU REGULATION	: CLP Regulation ((EC) No. 1272/2008)

---

**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.

# SAFETY DATA SHEET

SDS No.1021-41400

Revised date September 28, 2018 1/4 page

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : n-Tetracontane  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1021-41400, 1021-59035  
SDS No. : 1021-41400

Research use only.

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : - - -  
PRECAUTIONARY STATEMENTS : - - -  
HAZARD INFORMATION : May cause respiratory tract irritation if inhaled.  
May cause eye, skin and mucous irritations if contact with.  
May be harmful if ingested.  
May induce damage to the lung through prolonged or repeated exposure.  
MOST IMPORTANT HAZARDS : No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : n-Tetracontane  
SYNONYMS : - - -  
CONTENT : 99 %  
CHEMICAL FORMULA : C<sub>40</sub>H<sub>82</sub>  
CAS RN : 4181-95-7  
TSCA INVENTORY : Listed  
EINECS No. : 224-055-7

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.  
EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.  
INGESTION : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT	: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
INGESTION	: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

**5. FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA	: Carbon dioxide, dry chemical powder, foam, water spray
FIRE & EXPLOSION HAZARDS	: Toxic and irritating dust, fumes or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	: Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS	: Avoid raising dust and avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
ENVIRONMENTAL PRECATIONS	: Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
METHODS FOR CLEANING UP	: Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

**7. HANDLING AND STORAGE**

HANDLING	: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
STORAGE	: Store away from sunlight in well-ventilated dry place at room temperature. Keep the product in an original box after use it.
INCOMPATIBLE PRODUCTS	: Strong oxidizers and strong acids

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

ENGINEERING MEASURES	: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
VENTILATION	: Local Exhaust ; Recommended, Mechanical(General) ; Recommended
PERSONAL PROTECTION	
RESPRATORY PROTECTION	: Safety mask
HAND PROTECTION	: Chemical resistant gloves
EYE PROTECTION	: Safety glasses(goggles)
SKIN PROTECTION	: Protective clothing
CONTROL PARAMETERS	
OSHA PEL	: Not established
NIOSH REL	: Not established
ACGIH	: Not established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	: White – nearly white
PHYSICAL STATE	: Solid or powder
ODOR	: No data available
pH	: No data available
BOILING POINT	: No data available
MELTING POINT	: 80–82 °C
FLASH POINT	: No data available
FLAMMABILITY(solid, gas)	: No data available
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
SPACIFIC GRAVITY (DENSITY)	: No data available
SOLUBILITY IN	: Water : Practically Insoluble, Organic solvents : Slightly soluble
PARTITION COEFFICIENT ; n-octanol/water	: No data available
DECOMPOSITION TEMPERATURE	: No data available

---

**10. STABILITY AND REACTIVITY**

REACTIVITY	: Stable under recommended storage conditions.
CHEMICAL STABILITY	: Stable under recommended storage conditions.
CONDITION TO AVOID	: Sunlight, heat
INCOMPATIBLE MATERIALS	: Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	: CO, CO <sup>2</sup>

---

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY	: No data available
SKIN CORROSION/IRRITATION	: No data available
EYE DAMAGE/EYE IRRITATION	: No data available
RESPIRATORY OR SKIN SENSITIZATION	: No data available
GERM CELL MUTAGENICITY	: No data available
CARCINOGENICITY	: No data available
REPRODUCTIVE TOXICITY	: No data available
SPECIFIC TARGET ORGAN TOXICITY	: No data available
ASPIRATION TOXICITY	: No data available
POTENTIAL HEALTH EFFECTS	
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	: May be harmful if swallowed.
Skin	: May be harmful if absorbed through skin. May cause skin irritation
Eyes	: May cause eye irritation.
ADDITIONAL INFORMATION	
NTP	: Not listed
IARC	: Not listed
OSHA	: Not listed
ACGIH	: Not listed

---

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY	: No data available
BIODEGRADABILITY	: No data available
BIOACCUMULATION POTENTIAL	: No data available
MOBILITY IN SOIL	: No data available
OTHER ADVERSE EFFECTS	: Not listed in Montreal Protocol list.

---

**13. DISPOSAL INFORMATION**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). After contents are completely removed, dispose of its container at hazardous or special waste collection point (in accordance with local/regional/national/international regulation).

---

**14. TRANSPORT INFORMATION**

IATA	: Not Restricted
ADR/RID	: Not dangerous goods
DOT(Department of Transportation)	: Not a Hazardous Material for DOT shipping
MARINE POLLUTANT	: Yes

---

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION	: OSHA HCS 2012/29 CFR 1910.1200
EU REGULATION	: CLP Regulation ((EC) No. 1272/2008)



---

**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.