

SAFETY DATA SHEET

SDS No.1021-58301

Date

March 1, 2019

1/4 page

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Quantitative Hydrocarbon Mixture 301Y
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. : 1021-58301, 1021-
SDS No. : 1021-58301

Research use only.

2. HAZARDS IDENTIFICATION

GHS CLACCIFICATION : Hazardous to the aquatic environment - Acute hazard
: Category 1
Hazardous to the aquatic environment - Chronic hazard
: Category 1

HAZARDS SYMBOL :



SIGNAL WORD : Warning

HAZARD STATEMENTS :

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS :

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with all applicable regulations.

OTHER INFORMATIONS :

May be harmful if inhaled and ingested.

May cause eye and skin irritation.

Dispose of contents/container in accordance with all applicable regulations.

MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Quantitative Hydrocarbon Mixture 301Y

SYNONYMS : - - -

CHEMICAL FORMULA : Mixture

CHRMICAL NAME	CONTENT (Approx.)	CHRMICAL FORMULA	CAS RN	TSCA INVENTORY	EINECS No.
n-Decane	5 - 6 %	C ₁₀ H ₂₂	124-18-5	Listed	204-686-4
n-Undecane	6 - 7 %	C ₁₁ H ₂₄	1120-21-4	Listed	214-300-6
n-Dodecane	7 - 8 %	C ₁₂ H ₂₆	112-40-3	Listed	203-967-9
n-Tridecane		C ₁₃ H ₂₈	629-50-5	Listed	211-093-4
n-Tetradecane	8 - 9 %	C ₁₄ H ₃₀	629-59-4	Listed	211-096-0
n-Pentadecane	9 - 10 %	C ₁₅ H ₃₂	629-62-9	Listed	211-098-1
n-Hexadecane		C ₁₆ H ₃₄	544-76-3	Listed	208-878-9
n-Heptadecane	10 - 11 %	C ₁₇ H ₃₆	629-78-7	Listed	211-108-4
n-Octadecane	11 - 12 %	C ₁₈ H ₃₈	593-45-3	Listed	209-790-3
n-Nonadecane		C ₁₉ H ₄₀	629-92-5	Listed	211-116-8
n-Eicosane	12 - 13 %	C ₂₀ H ₄₂	112-95-8	Listed	204-018-1

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 : This product is noncombustible.
- 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 : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.
- ENVIRONMENTAL PRECAUTIONS : Prevent spills from entering sewers, watercourses or low areas.
- 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 container tightly closed.
- 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 ; Necessary, 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
- ACGIH : Not established
- OSHA PEL : Ceiling 2 mg/m³ (KOH)
- NIOSH REL : Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Solid
 PHYSICAL STATE : White
 ODOR : Odorless
 pH : No data available
 BOILING POINT : No data available
 MELTING POINT : No data available
 FLASH POINT : No data available
 FLAMMABILITY : No data available
 AUTOIGNITION TEMPERATURE : No data available
 VAPOR PRESSURE : No data available
 SPECIFIC GRAVITY (DENSITY) : No data available
 SOLUBILITY IN
 Water : No data available
 Organic solvent : No data available
 PARTITION COEFFICIENT
 ; n-octanol/water : No data available

10. STABILITY AND REACTIVITY

REACTIVITY : It is easy to absorb moisture in the air, and carbon dioxide.
 CHEMICAL STABILITY : Stable under recommended storage conditions.
 CONDITION TO AVOID : Sunlight, heat, moisture, CO₂, oxidizers, acids
 INCOMPATIBLE MATERIALS : Strong oxidizers and strong acids
 HAZARDOUS DECOMPOSITION PRODUCTS
 : CO, CO₂, silicone oxides

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : Classification not possible due to the lack of data
 SKIN CORROSION/IRRITATION : Classification not possible due to the lack of data
 EYE DAMAGE/EYE IRRITATION : Classification not possible due to the lack of data
 SENSITIZATION : Classification not possible due to the lack of data
 GERM CELL MUTAGENICITY : Classification not possible due to the lack of data
 CARCINOGENICITY : Classification not possible due to the lack of data
 REPRODUCTIVE TOXICITY : Classification not possible due to the lack of data
 SPECIFIC TARGET ORGAN TOXICITY -single exposure-
 : Classification not possible
 (n-Undecane) : In the acute oral toxicity study in rats (OECD TG 401, GLP-compliant), no deaths occurred and no test substance (undecane) related effects on clinical signs, body weight change, macroscopic or microscopic examinations were observed in both Sexes at the dose of 2000 mg/kg ("Toxicity Testing Reports of Environmental Chemicals" (Chemicals Investigation Promoting Council) (Access on Aug. 2010)).
 SPECIFIC TARGET ORGAN TOXICITY -repeated exposure-
 : Classification not possible due to the lack of data
 ASPIRATION TOXICITY : Classification not possible because the coefficient of kinematic viscosity of this mixture is unknown.

12. ECOLOGICAL INFORMATION

Hazardous to the aquatic environment - Acute hazard

: This mixture is classified in Category 1.

(n-Undecane) : 48h-EC50 = 0.011 mg/L for crustacea (*Daphnia magna*) (Test for the Ecological Effect of Chemical Substances (Ministry of the Environment), 2004).

Hazardous to the aquatic environment - Chronic hazard

: This mixture is classified in Category 1.

(n-Undecane) : Its acute toxicity is Category 1 and it is suspected that its bioaccumulation potential is high from LogPow = 6.5 (PHYSPROP Database, 2011).

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

Dispose in a hazardous-waste site 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 environment agency for specific rules).

14. TRANSPORT INFORMATION

IATA : Not dangerous goods

ADR/RID : Not dangerous goods

DOT(Department of Transportation) : Not dangerous goods

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.