

SAFETY DATA SHEET

SDS No.1021-58004

Date

November 5, 2013 1/4 page

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : SWA256 STANDARD SAMPLE, EACH 100µg/mL in Acetone
NAME OF MANUFACTURER : 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. : 1021-58004
SDS No. : 1021-58004
Research use only.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Flammable Liquids : Category 2
Eye damage/eye irritation : Category 2B
Toxic to reproduction : Category 2
Specific target organ toxicity - Single exposure : Category 3 (respiratory tract irritation, narcotic effects)
Specific target organ toxicity - Repeated exposure : Category 2 (Blood system)

HAZARDS SYMBOL :



SIGNAL WORD : Danger

HAZARD STATEMENTS :

H225 Highly flammable liquid and vapour
H320 Causes eye irritation
H361 Suspected of damaging fertility or the unborn child
H335+H336 May cause respiratory irritation; or May cause drowsiness or dizziness
H373 May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS :

P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. –No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash hands and eyes thoroughly after handling.
P260 Do not breathe fume/gas/mist/vapours.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+p313 IF exposed or concerned: Get medical attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical attention if you feel unwell.
P337+P313 If eye irritation persists: Get medical attention.
P370+P378 In case of fire: Use appropriate media such as chemical powder or carbon dioxide to extinguish.
P403+ P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with all applicable regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY	CONTENT	CHEMICAL FORMURA	CAS.No.	TSCA INVENTRY	EINECS No.	EC INDEX No.
Acetone	Approx. >99%	C ₃ H ₆ O	67-64-1	Listed	200-662-2	606-001-00-8
Dodecamethylcyclohexasiloxane	0.01%	C ₁₂ H ₃₆ O ₆ Si ₆	540-97-6	Listed	208-762-8	Not listed
Butylhydroxytoluene	0.01%	C ₁₅ H ₂₄ O	128-37-0	Listed	204-881-4	Not listed
Tris(2-chloroethyl) Phosphate	0.01%	C ₆ H ₁₂ C ₁₃ O ₄ P	115-96-8	Listed	204-118-5	015-102-00-0
Dibutyl Phthalate	0.01%	C ₁₆ H ₂₂ O ₄	84-74-2	Listed	201-557-4	607-318-00-4
Bis(2-ethylhexyl) Adipate	0.01%	C ₂₂ H ₄₂ O ₄	103-23-1	Listed	203-090-1	Not listed
Bis(2-ethylhexyl) Phthalate	0.01%	C ₂₄ H ₃₈ O ₄	117-81-7	Listed	204-211-0	607-317-00-9

4. FIRST AID MEASURES

GENERAL ADVICE : Consult a physician. Show this safety data sheet to the doctor in attendance.

INHALATION : Move victim to fresh air. 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 : 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 possible, remove any contact lenses. Consult a physician immediately.

INGESTION : Rinse mouth, give plenty of water to dilute the substance. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician immediately.

MOST IMPORTANT SYMPTOMS : Irritation eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

FIRE & EXPLOSION HAZARDS : Toxic, irritating, dust or smoke may be emitted. Carbon dioxide may be foamed.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Firemen 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.

ENVIROMENTAL PRECATIONS : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

METHODS FOR CLEAN UP : Do not touch spilled material without suitable protection. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

HANDLING : Avoid contact with eyes, skin, and clothing.
Avoid prolonged or repeated exposure.

STORAGE : Store away from sunlight in well-ventilated dry place at room temperature.
Keep container tightly closed.

INCOMOPATIBLE PRODUCTS : Strong oxidizers, acids

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits.
Use only with adequate ventilation.

VENTILATION : Local Exhaust ; Necessary, Mechanical(General) ; Necessary

PERSONAL PROTECTION

RESPRATORY PROTECTION : Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

HAND PROTECTION : Chemical resistant gloves
 EYE PROTECTION : Safety glasses(goggles)
 SKIN PROTECTION : Protective clothing
 CONTROL PARAMETERS
 OSHA PEL : TWA 1000ppm(2400mg/m³)
 NIOSH REL : TWA 250ppm(590mg/m³)
 ACGIH : TWA 500ppm STEL 750ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Colorless liquid
 ODOR : Characteristic odor
 pH : Not available
 BOILING POINT : 56.5 °C (133.7 °F)
 MELTING POINT : -94 °C (-201 °F)
 FLASH POINT : -18 °C (-0.4 °F) (TCC)
 FLAMMABILITY : Not available
 EXPLOSIVE LIMITS : 2.15% (lower), 13 % (upper)
 VAPOR PRESSURE : 24.7 kPa at 20 °C
 VAPOR DENSITY : 2.0
 DENSITY : 0.789– 0.792 g/cm³ at 20 °C
 SOLUBILITY IN
 Water : Miscible
 Alcohol, ether : Freely soluble
 PARTITION COEFFICIENT ; n-octanol/water : log Pow: -0.24
 AUTOIGNITION TEMPERATURE : 538 °C (1054.4 °F)
 DECOMPOSITION TEMPERATURE : Not available

10. STABILITY AND REACTIVITY

REACTIVITY : Reaction with strong oxidizers may be emitted explosive peroxides.
 CHEMICAL STABILITY : Stable under recommended storage conditions.
 CONDITION TO AVOID : Sunlight, heat, open flames, high temperature, sparks, static electrical charge, other ignition sources, moisture
 INCOMPATIBLE MATERIALS : Strong oxidizers, acids
 HAZARDOUS DECOMPOSITION PRODUCTS : Carbon monoxide may be formed.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY -Oral- : rat: LD50 = 5800mg/kg(RTECS)
 ACUTE TOXICITY –Inhalation- : mouse: LC50 =44g/m³/4H(RTECS)
 SKIN CORROSION/IRRITATION : rabbit: 395mg/24H, Mild(RTECS)
 EYE DAMAGE/EYE IRRITATION : rabbit: 20mg, Severe(RTECS)
 GERM CELL MUTAGENICITY : Cytogenetic analysis; hamster; fibroblast; 40g/l (RTECS)
 CARCINOGENICITY : Not listed as carcinogen on NTP, IARC, OSHA, ACGIH.
 REPRODUCTIVE TOXICITY : oral - TDLo rat: 273g/kg(13W male)(RTECS)
 inhalation - TCLo mammal: 31500Kg/m³/24H(1-13D preg)(RTECS)
 STOST-SINGLE EXPOSURE : Human, irritation of throat 12000ppm(ACGIH,2001)
 Human irritation of throat, nose and trachea 1190mg/m³/6h(EHC 207,1998)
 Human, irritation of throat 1000ppm/4h(EHC 207,1998)
 STOST-REPEATED EXPOSURE : The increase of white blood cell and eosinophilic leukocyte(ACGIH, 2001)
 ASPIRATION TOXICITY : Kinematic viscosity(calculated) : 0.426mm²/sec
 POTENTIAL HEALTH EFFECTS : Sialorrhea, facial blushing, cough, dizziness, lethargy, headache, throat ache, unconscious, sicchasia, vomiting
 ADDITIONAL INFORMATION
 NTP : Not listed
 IARC : carcinogenicity: group 4
 OSHA : Not listed
 ACGIH : Not listed
 OTHER INFORMATION : RTECS No. AL3150000

12. ECOLOGICAL INFORMATION

ECOTOXICITY : LC50 - Salmo gairdneri: 5540 mg/L/96hr (at 12°C)
 BIODEGRADABILITY : This material is biodegradable.
 BIOACCUMULATION POTENTIAL : Not available
 MOBILITY IN SOIL : Not available
 OTHER ADVERSE EFFECTS : WGK; 1
 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
 UN NUMBER : 1090
 UN PROPER SHIPPING NAME : Acetone
 CLASS or DIVISION : 3, Flammable liquid
 PACKING GROUP : II
 ADR/RID : 1090, ACETONE
 DOT : 1090, ACETONE
 MARINE POLLUTANT : Not classified

15. REGULATORY INFORMATION

US REGULATIONS :
 EPA : EPCRA TPQ = Not listed
 CERCLA RQ = 5000 lb
 OSHA : TQ = Not listed

EU REGULATIONS : Labeling according to EC Directives; See section 2

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.