In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 1/19

1 - IDENTIFICATION

Product identifier SL450

Product code HRWA-XF03-N2FX-M9MX

Recommended use of the

chemical and restrictions Paints and varnishes

on use

Company Hottinger Brüel & Kjaer

Address 19 Bartlett st. Marlborough, MA 01590

Telephone number +1.508.804.3268

Emergency telephone

number

Chemtrec: 1-800-424-9300. International: 1-703-527-3887

E-mail support@hbm.com

2 - HAZARDS IDENTIFICATION

Flammable liquids - Category 2

Acute Toxic Inhalation – Category 4 Skin corrosion/irritation – Category 2

Skin sensitization - Category 1

Serious eye damage/eye irritation - Category 2B

Classification of the Carcinogenicity – Category 2

chemical Reproductive toxicity – Category 2

Specific target organ toxicity – Single exposure – Category 3 Specific target organ toxicity – Repeated exposure – Category 2

Hazardous to the aquatic environment, short-term Acute -

Category 2

Hazardous to the aquatic environment, long-term Chronic -

Category 3

Signal word DANGER

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Hazard statement(s)

Revision: 00 Date: 8/24/2021 Pages: 2 /19

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H320 Causes eye irritation. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to auditory system through prolonged

or repeated exposure. H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Symbol(s)







PREVENTION

P203 Obtain, read, and follow all safety instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames, and other sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

Precautionary statement(s)

P241 Use explosions-proof electrical, ventilating, lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 3 /19

P280 Wear protective gloves, protective clothing, eye protection, face protection, hearing protection.

RESPONSE

P318 IF exposed or concerned, get medical advice.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370 + P378 In case of fire: Use water jet or fog, chemical powder, carbon dioxide (CO₂) to extinguish.

STORAGE

P403 + P235 Store in well-ventilated place. Keep cool.

DISPOSAL

P501 Dispose of contents and container in accordance with current regulations.

Hazard Communication Standard (HCS) 29 CFR: 1910.1200 - Appendix A.

Classification system

adopted

Adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations, 8 ed.

Other hazards which do not result in classification

The product has no other hazards.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE

Impurities and stabilizing additives contributing to the hazard (%m):

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 4 /19

| Components | Concentration % | Number CAS | GHS classification* |
|-----------------------------------|-----------------|------------|--|
| Xylene | 50 - < 55% | 1330-20-7 | H226; H312; H315; H320; H335; H401 |
| Ethylbenzene | 10 - < 15% | 100-41-4 | H225; H304; H320; H332; H351; H373; H401; H412 |
| Zinc bis (diethyldithiocarbamate) | < 1% | 14324-55-1 | H302; H315; H317; H319; H335; H373; H400; H410 |
| Toluene | < 1% | 108-88-3 | H225; H304; H315; H320; H336; H361; H372; H401; H411 |

^{*} Hazard statements are described in section 16.

4 - FIRST-AID MEASURES

Remove victim to fresh air and keep at rest in a comfortable position for breathing. Monitor respiratory function. If you feel

unwell, contact a POISON CENTER or doctor. Take this SDS.

Wash exposed skin with enough soap and water to remove the material, if necessary, take a shower. Contact a POISON

CENTER or doctor immediately. Take this SDS.

Rinse with plenty of water, keeping the eyelids open to eliminate all the product. If using contact lenses, remove them if it is easy. Continue rinsing. If necessary, contact a POISON CENTER or a

doctor. Take this SDS.

Do not induce vomiting. Do not give anything by mouth to an unconscious person. Rinse victim's mouth with plenty of water. If vomiting occurs, tilt the patient forward or place the patient on the left side (if possible upwards) to keep the airway open and prevent aspiration. Keep the patient silent and maintain normal body temperature. Consult a POISON CENTER or doctor. Take

Skin contact

Inhalation

Eye contact

Ingestion

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 5 /19

this SDS.

Most important symptoms and effects, acute and delayed

Harmful if inhaled. Exposure to the product causes skin irritation with redness, dryness and peeling, and eye irritation with tearing and redness. Exposure to the product may cause allergic skin reactions with dermatitis and itching. May cause respiratory irritation with coughing and sneezing. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to auditory system through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

Avoid contact with the product when helping the victim. Exposure treatment should be directed towards the control of the patient's symptoms and clinical condition. In case of contact with the skin, do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

Extinguishing media

Suitable: Compatible with water jet or fog, foam, chemical powder, carbon dioxide (CO₂).

Not suitable: Direct water jets.

Specific hazards arising from the chemical product

Extremely dangerous when exposed to excessive heat or other sources of ignition such as sparks, open flames or match and cigarette flames, welding operations, pilot lights and electric motors. May accumulate static charge by flow or agitation. Vapors of heated liquid may ignite by static discharge. Vapors may be denser than air and tend to accumulate in low or confined areas such as manholes and basements. They can travel long distances, causing the flame to recede or new fires in open and confined environments. Containers may explode if heated. Combustion of the chemical or its packaging can form irritating and toxic gases such as monoxide and carbon dioxide. If material is on fire or involved in fire: Submerge with water. Cool all affected containers with plenty of water. Approach fire against wind to avoid hazardous vapors and toxic

Specific extinguishing methods

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Personal precautions

Emergency procedures

Revision: 00 Date: 8/24/2021 Pages: 6 /19

decomposition products. Use large amounts of water in containers involved in fire. If necessary, use water spray to cool fire-exposed containers.

Self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing.

6- ACCIDENTAL RELEASE MEASURES

Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without wearing suitable clothing. Avoid exposure to the product. Stay away from low areas, with the wind behind you. Use personal protective equipment as

described in section 8.

Protective equipment Wear PPE complete with safety glasses, protective gloves,

suitable protective clothing, and closed shoes.

In case of large leaks, where exposure is large, it is recommended to use respiratory protection with a filter against vapors. Evacuate the area within a radius of at least 300 meters. If the tank or cargo is involved in the fire, isolate the area within a radius of 800 meters in all directions. Keep unauthorized persons away from the area. Stop the leak if it can be done without risk

be done without risk.

Environmental precautions Prevent spilled product from reaching water courses and

sewage system.

Methods and materials for Containment techniques may include bunding, covering of

drains and capping procedures.

Use water mist or vapor suppressing foam to reduce the dispersion of the vapors. Use natural barriers or containment of spillage. Collect spilled product and place in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or other inert material. Place the adsorbed material in appropriate containers and remove them to a safe place. For

Methods and materials for cleaning up

containment

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 7 /19

disposal, proceed according to Section 13 of this SDS.

7- HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Handle in a ventilated area or with a general local ventilation / exhaust system. Avoid formation of vapors. Avoid exposure to the product. Avoid contact with incompatible materials. Ground all equipment. Use explosion-proof electrical equipment and lighting. Ground the lines and equipment used during the transfer to reduce the possibility of a fire or explosion initiated by a static spark. Use personal protective equipment as described in section 8. Wash hands and face thoroughly after handling and before eating, drinking, smoking, or going to the bathroom. Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas.

Keep away from heat, sparks, open flames, and hot surfaces. - Do not smoke. Keep container tightly closed. Ground the container vessel and the receiver of the product during transfers. Only use anti-sparking tools. Avoid the accumulation of electrostatic charges. Use electrical equipment, ventilation, and lighting explosion proof. Incompatible with oxidizing agents. Recommended Packaging: similar to original packaging.

8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Occupational exposure limit

| Chemical or | TLV – TWA | PEL – TWA | REL – TWA |
|-------------|------------|-------------|----------------|
| common | (ACGIH, | (OSHA, | (NIOSH, |
| name | 2021) | 2019) | 2019) |
| | TWA 10 ppm | 100 ppm | 100 ppm |
| Xylene A4 | STEL 150 | (ST) 150ppm | (ST) 150 ppm |
| | ppm | (C) 300 ppm | (31) 130 ppiii |

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 8 /19

| Toluene OTO; | 20 ppm | 200 ppm | 100 ppm |
|--------------------|--------|----------------------|----------------------------|
| A4 | | 300 ppm (C) | (ST) 150 ppm |
| Ethylbenzene A3 | 20 ppm | 5 ppm (ST) 30 ppm | 100 ppm (ST) 125 ppm |

A3: Confirmed animal carcinogen with unknown relevance to humans.

A4: Not classified as a human carcinogen.

OTO: Ototoxicant.

ST: Short Term Exposure Limit

N.E. Not established ACGIH - BEI (2021):

Ethylbenzene:

Sum of mandelic acid and phenylglyoxylic acid in urine (end of shift): 0.15 g/g creatinine. Ns

Toluene:

Toluene in blood (prior to last shift of workweek): 0.02 mg/L.

Toluene in urine (end of shift): 0.03 mg/L.

o-Cresol in urine (end of shift): 0.3 mg/g creatinine. B

Xvlene:

Methylhippuric acids in urine (end of shift): 1.5 g/g creatinine.

Ns Nonspecific. B: Background.

Promote direct mechanical ventilation and exhaust system to the outside environment. These measures help reduce exposure to product. Keep atmospheric concentrations of the chemical agent below the indicated occupational exposure

limits.

Individual protection measures, such as personal protective equipment

Respiratory protection Respiratory protection with filter against organic vapors or mist

in case of exposure to the product.

Biological limit

controls

Appropriate engineering

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 9 /19

Based on occupational exposure limits and inhalation hazards of the product, a risk assessment should be performed to properly define respiratory protection in view of the conditions of

product use.

Hand protection Nitrile protective gloves.

Eye protection Safety glasses with side shields.

Skin and body protection

Suitable safety clothing and closed shoes. The material used

should be waterproof. Wear anti-static footwear and clothing.

Special precautions Not established.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (physical

state, color, etc.)

Liquid colorless.

Odour Solvents.

Odour threshold Not available.
pH Not available.

Melting point/freezing point Not available.

Boiling point, initial boiling,

and boiling range

Vapour pressure

136°C.

Flashpoint 15 °C.

13 6.

Upper/lower flammability or Lower: 0.7 vol %. explosive limits Upper 8.1 col. %.

10 hPa (20°C).

47 hPa (50°C).

Vapour density Not available.

Relative density 1.01 g/cm³ (20°C).

Solubility(ies) Not available.

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 10 /19

n-octanol/water partition

coefficient

Not available.

Auto-ignition temperature

430°C.

Decomposition

temperature

Not established.

Odour threshold Not established.

Evaporation rate Not available.

Not established. Flammability

Viscosity Not available.

Other information Not available.

10 - STABILITY AND REACTIVITY

Reactivity and Chemical

stability

Product is stable under normal conditions of temperature and

pressure.

Possibility of hazardous

reactions

May react dangerously in contact with incompatible materials.

Conditions to avoid

Elevated temperatures. with Ignition sources. contact

incompatible materials and humidity.

Incompatible materials

Incompatible with oxidizing agents.

Hazardous decomposition

Decomposition of product may generate toxic gases such as

products

CO, CO₂.

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 11 /19

11 - TOXICOLOGICAL INFORMATION

Harmful if inhaled. The product is not expected to present acute

oral and dermal toxicity.

Ethylbenzene:

LC₅₀ (inhalation, rats, 4h): 17.2 mg/L.

Toluene:

LD₅₀ (oral, rats): 5,580 mg/kg.

LD₅₀ (dermal, rabbits): > 5,000 mg/kg.

LC₅₀ (inhalation, rats): 25.7 mg/L.

Acute toxicity <u>Xylene</u>:

LD₅₀ (oral, rats): 3,523 mg/kg.

LD₅₀ (dermal, rabbits): 12,126 mg/kg. LC₅₀ (inhalation, rats, 4h): 6,700 ppm. Zinc bis (diethyldithiocarbamate):

LD50 (oral, rats): 1,960 mg/kg.

LD50 (dermal, rabbits): > 2,000 mg/kg. <u>Acute Toxicity Estimate Mixture – ATE:</u> ATE inhalation (aerosol): 2.941 mg/L.

Exposure to the product causes skin irritation with redness,

dryness, and peeling.

Skin irritation/corrosion Xylene:

Effects on skin irritation/corrosion (test in vivo): moderately

irritating.

Exposure to the product causes eye irritation, with tearing and

redness.

Eye damage/irritation Xylene:

Effects on eye irritation (test in vivo): irritating.

Respiratory or skin

sensitization

Exposure to the product may cause allergic skin reactions with dermatitis and itching because of the presence of the zinc bis

(diethyldithiocarbamate).

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Reproductive cell

mutagenicity

Revision: 00 Date: 8/24/2021 Pages: 12 /19

The product is not classified as mutagenic.

Xylene:

Negative results were obtained for mixed xylene when tested in a dominant lethal assay in rats, and also in a complementary assay conducted in mice. Results from an in vivo rat bone marrow chromosome aberration assay on mixed xylene were also negative. In vitro genetic toxicity data for xylene isomers are also consistently negative.

Ethylbenzene:

Ethylbenzene had negative results for mutagenicity assays in bacteria (Ames) and yeast assay in mitotic recombination (in vitro).

In vivo mutagenicity assays with mouse cells, there were some positive results, however, with very high doses.

Suspected of causing cancer.

Ethylbenzene:

Carcinogenicity

Classified by ACGIH as group A3: Confirmed animal carcinogen

with unknown relevance to humans.

Classified by IARC as group 2B: Possibly carcinogenic to humans.

Suspected of damaging fertility or the fetus.

Toluene:

Reproductive toxicity

Exposure to the product may impair fertility or the fetus, with an increased incidence of miscarriage, abnormal development and malformation of newborns, and decreased plasma concentrations of luteinizing hormone and testosterone.

Specific target organ toxicity – single exposure

May cause respiratory irritation with coughing and sneezing.

Specific target organ toxicity – repeated

May cause damage to auditory system through prolonged or repeated exposure because of the presence of the ethylbenzene.

exposure

It is not expected that the product presents aspiration hazard.

Aspiration hazard

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 13 /19

12 - ECOLOGICAL INFORMATION

Environmental effects, behavior, and fate of the product

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Ethylbenzene:

LC₅₀ (*Pimephales promelas*, 96h): 12.1 mg/L.

LC₅₀ (Oncorhynchus mykiss, 96h): 4.2 mg/L.

LC₅₀ (Daphnia magna, 48h): 5.1 mg/L.

LC₅₀ (Ceriodaphnia dubia, 48h): 1.81 mg/L.

NOEC (Ceriodaphnia dubia, 7d): 1.0 mg/L.

Xylene:

EC₅₀ (Pseudokirchneriella subcapitata, 72h): 4.9 mg/L.

LC₅₀ (Oncorhynchus mykiss, 96h): 8.4mg/L.

LC₅₀ (*Pimephales promelas*, 96h): 16.0 mg/L.

LC₅₀ (*Oncorhynchus mykiss*, 96h): 7.6 mg/L, 8.4 mg/L, 2.6 mg/L and 13.5 mg/L for o-, m-, p- and mixed xylenes, respectively.

LC₅₀ (*Pimephales promelas*, 96h): 16.4 mg/L, 28 mg/L and 26.7

mg/L for o-, m- and mixed xylenes, respectively.

EC₅₀ (*Daphnia magna*, 48h): 3.2 mg/L, 9.56 mg/L and 8.5 mg/L for o, m and p-xylene, respectively.

EC₅₀ (*Selenastrum capricornutum*, 72h): 4.7 mg/L, 4.9 mg/L and 3.2 mg/L for o-, m- and p-xylene, respectively.

NOEC (*Oncorhynchus mykiss*): ≥ 1.3 mg/L.

Toluene:

LC₅₀ (Oncorhynchus kisutch, 96h): 9.36 mg/L.

EC₅₀ (Daphnia magna, 48h): 6 mg/L.

ECr₅₀ (Green Algae, 72h): 12.5 mg/L.

NOEC (Ceriodaphnia dubia, 7 days): 0.74 mg/L.

NOEC (Oncorhynchus kisutch, 40 days): > 1 mg/L.

Zinc bis (diethyldithiocarbamate):

LC₅₀ (Oncorhynchus mykiss, 96h): 0.23 mg/L.

EC₅₀ (Daphnia magna, 48h): 0.24 mg/L.

Ecotoxicity

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 14 /19

ErC₅₀ (*Pseudokirchneriella subcapitata*, 72h): 47.5 μg/L.

NOEC (Daphnia magna, 21 d): 3.2 μg/L.

Persistence and The product is expected to be non-persistent and rapidly

degradability degraded.

Presents low bioacumulative potencial in aquatic organisms.

Xylene:

Log kow; 3.09.

Bioaccumulative potential <u>Toluene:</u>

Log kow: 2.73. Ethylbenzene: Log kow: 3.15.

Mobility in soil Not available.

Other adverse effects

There are not known adverse environmental effects of the

product.

13 - DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.

Keep product residues in their original containers and properly closed. Disposal should be in accordance with the regulations for the product.

Do not reuse empty containers. These may contain product residues and should be kept closed and sent for appropriate disposal as established for the product.

14 - TRANSPORT INFORMATION

International regulations

packaging

UN - "United Nations"

Land Recommendations on the TRANSPORT OF DANGEROUS

GOODS. Model Regulations

DOT - U.S. Department of Transportation

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 15 /19

UN number 1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Ethylbenzene, Xylene)

Transport hazard class(es) 3
Subsidiary risk NA
Packing group II

Sea IMO – International Maritime Organization

International Maritime Dangerous Goods Code (IMDG Code)

UN number 1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Ethylbenzene, Xylene)

Transport hazard class(es) 3
Subsidiary risk NA
Packing group II

Environmental hazards Product is not considered a marine pollutant..

EmS F-E, S-E

Air IATA – International Air Transport Association

Dangerous Goods Regulation (DGR)

UN number 1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Ethylbenzene, Xylene)

Transport hazard class(es) 3
Subsidiary risk NA
Packing group II

Consult regulations:

- International Maritime Organization. MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated

edition. IMO, London, 2006.

- International Maritime Organization. IBC code: International code for the construction and equipment of shipping carrying

Transport in bulk according to MARPOL 73/78, Annex II, and the IBC Code

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 16 /19

dangerous chemicals in bulk: With Standards and guidelines

relevant to the code. IMO, London, 2007.

Special precautions There is no need of special precautions.

15 - REGULATORY INFORMATION

International Labor Organization C170 Chemicals Convention, from June 25th, 1990: Occupational Safety and Health – Toxic

Substances and Agents.

Hazard Communication Standard (HCS) 29 CFR: 1910.1200 -

Appendix A, B, C, D, E, F.

Safety, health, and environmental

regulations/legislation

specific for the substance

or mixture

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

AND LABELLING OF CHEMICALS (GHS). 8. rev. ed.

U.S. Federal Regulations: United States inventory (TSCA): Xvlene is listed. Ethylbenzene is listed. Zinc

bis(diethyldithiocarbamate) is listed. Toluene is listed.

California Proposition 65: Ethylbenzene is listed (cancer).

Toluene is listed (developmental).

16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

SDS elaborated in August 2021.

Hazard statements described in section 3:

H225 Highly flammable liquid and vapour.

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 17 /19

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H320 Causes eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to auditory system through prolonged or repeated.

H373 May cause damage to liver and spleen through prolonged or repeated

H400 Very toxic to aquatic life.

H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists

BCF – Bioconcentration Factor

CAS - Chemical Abstracts Service

LE₅₀ – Efective concentration 50%

LC₅₀ – Lethal Concentration 50%

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 18 /19

LD₅₀ – Lethal Dose 50%

NIOSH - National Institute of Occupational Safety and Health

OSHA – Occupational Safety & Health Administration

PEL – Permissible Exposure Limit

REL – Recommended Exposure Limit

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TWA – Time Weighted Average

Bibliographic references:

ACGIH. AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2021.

ECHA. EUROPEAN CHEMICAL AGENCY. Available in: https://echa.europa.eu/>. Access in: Aug. 2021.

ECHEM. The Global Portal to Information on Chemical Substances OECD. Available in: https://www.echemportal.org/echemportal/substancesearch/substancesearch_execute. action>. Access in: Aug. 2021.

EPA. United States Environmental protection Agency. Comptox. Available in: < https://comptox.epa.gov>. Access in: Aug. 2021.

GHS. Globally Harmonized System of Classification and Labelling of Chemicals. 8. rev. ed. New York: United Nations, 2019.

In compliance with HCS/HazCom 2012



SAFETY DATA SHEET

Product: SL450

Revision: 00 Date: 8/24/2021 Pages: 19 /19

IARC. INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available in: http://monographs.iarc.fr/ENG/Classication/index.php. Access in: Aug. 2021.

NIOSH. NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available in: http://www.cdc.gov/niosh/>. Access in: Aug. 2021.

NJ. STATE OF NEW JERSEY - Department of Health. Available in: http:/nj.gov/health/eoh/rtkweb/odispubr.shtml. Access in: Aug. 2021.

SDS. Safety Data Sheet. SL450. Revision No: 1,5 - Replaces version: 1,4. Revision date: 17.03.2021.

TOXNET. TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available in: http://chem.sis.nlm.nih.gov/. Access in: Aug. 2021.