

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

SECTION 1. IDENTIFICATION

Product name : SENERSHIELD R
Product code : 000000000057646498

Manufacturer or supplier's details

Company name of supplier : Sika MBCC US LLC
Address : 201 POLITO AVE
Lyndhurst NJ 07071
Emergency telephone : ChemTel: +1-813-248-0585

Recommended use of the chemical and restrictions on use

Recommended use : Functional surface coating
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization : Category 1
Carcinogenicity (Inhalation) : Category 1A
Specific target organ toxicity : Category 1 (Lungs)
- repeated exposure (Inhalation)
Specific target organ toxicity : Category 2 (Kidney, Immune system)
- repeated exposure (Inhalation)

GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.
H350 May cause cancer by inhalation.
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
H373 May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure if inhaled.

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : polymers
inorganic compounds

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|------------|-----------------------|
| crystalline silica | 14808-60-7 | $\geq 20 - < 30$ |
| Limestone | 1317-65-3 | $\geq 10 - < 20$ |
| Titanium dioxide | 13463-67-7 | $\geq 1 - < 5$ |
| propane-1,2-diol | 57-55-6 | $\geq 1 - < 5$ |
| crystalite | 14464-46-1 | $\geq 1 - < 5$ |
| Kieselguhr, soda ash flux-calcined | 68855-54-9 | $\geq 1 - < 5$ |
| 1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol | 4719-04-4 | $\geq 0.1 - < 1$ |

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

- If inhaled : Keep patient calm, remove to fresh air.
If symptoms persist, seek medical advice.
- In case of skin contact : After contact with skin, wash immediately with plenty of water and soap.
Under no circumstances should organic solvent be used.
If irritation develops, seek medical attention.
- In case of eye contact : Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution and seek medical advice.
- If swallowed : Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.
Do not induce vomiting unless told to by a poison control center or doctor.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
May cause cancer by inhalation.
Causes damage to organs through prolonged or repeated exposure if inhaled.
Prolonged or repeated inhalation of respirable crystalline silica (quartz) may result in silicosis.
- Notes to physician : Treat symptomatically.
-

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Foam
Water spray
Dry powder
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : water jet
- Hazardous combustion products : fumes/smoke
harmful vapours
Carbon oxides
nitrogen oxides
carbon black
- Further information : The degree of risk is governed by the burning substance and the fire conditions.
If exposed to fire, keep containers cool by spraying with water.
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.
Contaminated extinguishing water must be disposed of in accordance with official regulations.
- Special protective equipment for fire-fighters : Wear a self-contained breathing apparatus.
-

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Wear eye/face protection.
Use personal protective clothing.
Handle in accordance with good building materials hygiene and safety practice.
- Environmental precautions : Contain contaminated water/firefighting water.
Do not discharge into drains/surface waters/groundwater.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid inhalation of dusts/mists/vapours.
Avoid skin contact.
Ensure adequate ventilation.
No special measures necessary provided product is used correctly.
- Conditions for safe storage : Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.
Protect from direct sunlight.
- Recommended storage temperature : > 39 °F / > 4 °C
- Further information on storage stability : PROTECT FROM FREEZING DURING THE COLD-SEASON (BELOW 40°F / 5°C).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--------------------|------------|--------------------------------|--|----------|
| crystalline silica | 14808-60-7 | TWA (Respirable dust) | 0.05 mg/m ³ | OSHA Z-1 |
| | | TWA (respirable) | 10 mg/m ³ / %SiO ₂ +2 | OSHA Z-3 |
| | | TWA (respirable) | 250 mppcf / %SiO ₂ +5 | OSHA Z-3 |
| | | TWA (respirable dust fraction) | 0.1 mg/m ³ | OSHA P0 |
| | | TWA (Res- | 0.025 mg/m ³ | ACGIH |

SAFETY DATA SHEET

SENERSHIELD R



Version
1.2

Revision Date:
11/02/2022

SDS Number:
000000260345

Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

| | | | | |
|------------------------------------|------------|-------------------------------------|--|------------------------------|
| | | pirable particulate matter) | (Silica) | |
| | | TWA (Respirable dust) | 0.05 mg/m3 (Silica) | NIOSH REL |
| Limestone | 1317-65-3 | TWA (total dust) | 15 mg/m3 | OSHA Z-1 |
| | | TWA (respirable fraction) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Total dust) | 15 mg/m3 | OSHA P0 |
| | | TWA (respirable dust fraction) | 5 mg/m3 | OSHA P0 |
| | | TWA (Respirable) | 5 mg/m3 (Calcium carbonate) | NIOSH REL |
| | | TWA (total) | 10 mg/m3 (Calcium carbonate) | NIOSH REL |
| Titanium dioxide | 13463-67-7 | TWA (total dust) | 15 mg/m3 | OSHA Z-1 |
| | | TWA (Total dust) | 10 mg/m3 | OSHA P0 |
| | | TWA (Respirable particulate matter) | 0.2 mg/m3 (Titanium dioxide) | ACGIH |
| | | TWA (Respirable particulate matter) | 2.5 mg/m3 (Titanium dioxide) | ACGIH |
| propane-1,2-diol | 57-55-6 | TWA | 10 mg/m3 | US WEEL |
| crystalite | 14464-46-1 | TWA (Respirable dust) | 0.05 mg/m3 | OSHA Z-1 |
| | | TWA (respirable dust fraction) | 0.05 mg/m3 | OSHA P0 |
| | | TWA (Respirable particulate matter) | 0.025 mg/m3 (Silica) | ACGIH |
| | | TWA (Respirable dust) | 0.05 mg/m3 (Silica) | NIOSH REL |
| Kieselguhr, soda ash flux-calcined | 68855-54-9 | REL value | 6 mg/m3 | NIOSH |
| | | TWA value | 20 millions of particles per cubic foot of air | 29 CFR 1910.1000 (Table Z-3) |
| | | TWA value | 0.8 mg/m3 | 29 CFR 1910.1000 (Table Z-3) |
| | | OSHA Action level | 0.025 mg/m3 (Respirable dust) | 29 CFR 1910.1001- |

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

| | | | | |
|--|--|------------|---|------------------------------|
| | | | | 1050 |
| | | TWA value | 0.05 mg/m ³ (Respirable dust) | 29 CFR 1910.1001- 1050 |
| | | TWA (Dust) | 20 Million parti- cles per cubic foot (Silica) | OSHA Z-3 |
| | | TWA (Dust) | 80 mg/m ³ / %SiO ₂ (Silica) | OSHA Z-3 |
| | | TWA | 6 mg/m ³ (Silica) | NIOSH REL |

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Wear appropriate certified respirator when exposure limits may be exceeded.
Use NIOSH approved respiratory protection.

Hand protection

Remarks : Chemical resistant protective gloves. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection : Wear safety glasses with side shields or goggles.

Skin and body protection : Body protection must be chosen based on level of activity and exposure.

Protective measures : Do not inhale dust/fumes/aerosols.
Avoid contact with the skin, eyes and clothing.
Avoid exposure - obtain special instructions before use.
Handle in accordance with good building materials hygiene and safety practice.
Wearing of closed work clothing is recommended.

Hygiene measures : When using, do not eat, drink or smoke.
Hands and/or face should be washed before breaks and at the end of the shift.
At the end of the shift the skin should be cleaned and skin-care agents applied.
Gloves must be inspected regularly and prior to each use.
Replace if necessary (e.g. pinhole leaks).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Color : gray

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

Odor : slight odour, acidulous

Odor Threshold : not determined

pH : 8 - 9.5 (73 °F / 23 °C)

Melting point : No data available

Boiling point : Not applicable

Flash point : A flash point determination is unnecessary due to the high water content.

Evaporation rate : No data available

Flammability (liquids) : Not classified as a flammability hazard

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : Not applicable

Relative vapor density : No data available

Relative density : No data available

Density : 1.47 g/cm³ (73 °F / 23 °C)
12.27 lb/USg

Bulk density : Not applicable

Solubility(ies)
Water solubility : soluble, partly miscible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : Based on the water content the product does not ignite.

Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

Explosive properties : Not explosive

Oxidizing properties : Not an oxidizer.

Sublimation point : No data available

Molecular weight : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability : The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions : The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid : See SDS section 7 - Handling and storage.

Incompatible materials : Strong acids
Strong bases
Strong oxidizing agents
Strong reducing agents

Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer by inhalation.

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

| | | |
|-------------|---|------------|
| IARC | Group 1: Carcinogenic to humans crystalline silica (Silica dust, crystalline) | 14808-60-7 |
| | Group 1: Carcinogenic to humans cristobalite (Silica dust, crystalline) | 14464-46-1 |
| | Group 2B: Possibly carcinogenic to humans Titanium dioxide | 13463-67-7 |
| NTP | Known to be human carcinogen crystalline silica (Silica, Crystalline (Respirable Size)) | 14808-60-7 |
| | Known to be human carcinogen cristobalite (Silica, Crystalline (Respirable Size)) | 14464-46-1 |

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Health injuries are not known or expected under normal use.
The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Product:

Biodegradability : Remarks: Taking into consideration the properties of several

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available.
Discharge into the environment must be avoided.

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with national, state and local regulations.
Do not discharge into drains/surface waters/groundwater.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

SECTION 15. REGULATORY INFORMATION

US State Regulations

Pennsylvania Right To Know

| | |
|---|------------|
| crystalline silica | 14808-60-7 |
| Limestone | 1317-65-3 |
| Titanium dioxide | 13463-67-7 |
| propane-1,2-diol | 57-55-6 |
| crystalite | 14464-46-1 |
| Kieselguhr, soda ash flux-calcined | 68855-54-9 |
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0 |

New Jersey Right To Know

| | |
|--------------------|------------|
| crystalline silica | 14808-60-7 |
| Limestone | 1317-65-3 |
| Titanium dioxide | 13463-67-7 |
| propane-1,2-diol | 57-55-6 |
| crystalite | 14464-46-1 |

California Prop. 65

WARNING: This product can expose you to chemicals including crystalline silica, which is/are known to the State of California to cause cancer, and 4-vinyl cyclohexene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

DSL : This product contains one or more components not listed on the Canadian DSL or NDSL. All other components are on the Canadian DSL.

SECTION 16. OTHER INFORMATION

Further information

SAFETY DATA SHEET

SENERSHIELD R



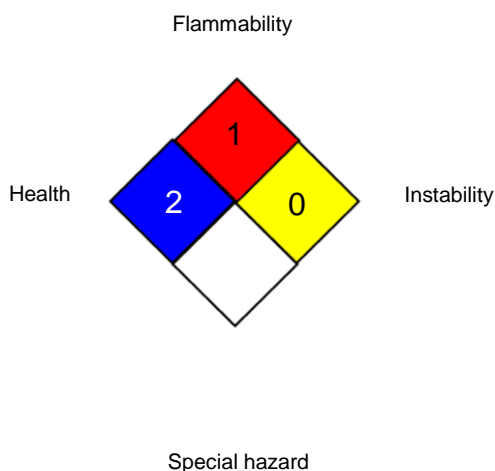
Version
1.2

Revision Date:
11/02/2022

SDS Number:
000000260345

Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

NFPA 704:



HMIS® IV:

| | | |
|-----------------|--|--|
| HEALTH | | |
| FLAMMABILITY | | |
| PHYSICAL HAZARD | | |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

- 29 CFR 1910.1000 (Table Z-3) : OSHA Table Z-3 (Mineral Dusts) 29 CFR 1910.1000
- 29 CFR 1910.1001-1050 : OSHA - Specifically Regulated Substances (29 CFR 1910.1001-1050)
- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
- US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
- 29 CFR 1910.1000 (Table Z-3) / TWA value : Time Weighted Average (TWA):
- 29 CFR 1910.1001-1050 / OSHA Action level : OSHA Action level:
- 29 CFR 1910.1001-1050 / TWA value : Time Weighted Average (TWA):
- ACGIH / TWA : 8-hour, time-weighted average
- NIOSH / REL value : Recommended exposure limit (REL):
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA Z-1 / TWA : 8-hour time weighted average
- OSHA Z-3 / TWA : 8-hour time weighted average
- US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic

SAFETY DATA SHEET

SENERSHIELD R



Version 1.2 Revision Date: 11/02/2022 SDS Number: 000000260345 Date of last issue: 01/05/2021
Date of first issue: 05/20/2020

Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 11/02/2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN