

SAFETY DATA SHEET

| Date Revised: SECTION 1. IDENTIFICATION Product Name: Erbium Oxide Nanoparticles / Nanopowder CAS #: 12061-16-4 Relevant identified uses of the substance: Scientific research and development Supplier details: Stanford Advanced Materials E-mail: sales@samaterials.com Tel: (949) 407-8904 Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A. | | 1 I | | | | 111 | | 1 1 | : · · | Date | Accessed | : 25/08 | 3/2023 |
|--|---------|-------------|-------------|-----------|-----------|--------------|--------------|-----------|--------------------|---------|-----------|--------------|--------|
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| Stanford Advanced Materials E-mail: sales@samaterials.com Tel: (949) 407-8904 | Relev | ant iden | tified us | ses of t | he subs | stance: S | Scienti | fic resea | rch and | develo | opment | .: | |
| E-mail: sales@samaterials.com Tel: (949) 407-8904 | Supp | lier deta | ils: | | | | | | | | | | |
| E-mail: sales@samaterials.com Tel: (949) 407-8904 | Stanfo | ord Adva | nced Ma | aterials | | | | | | : | | | |
| | E-mai | l: sales@ |)samate | rials.co | m | | i | | | i | | | i |
| Address: 23661 Birtcher Dr. Lake Forest, CA 02630 U.S.A | Tel: (9 | 949) 407- | 8904 | | · · . | | | · · . | | | | | |
| Address. 2000 F Diricher Dr., Lake Forest, CA 92000 0.3.A. | Addre | ss: 2366 | 1 Birtch | er Dr., L | ake For | est, CA s | 92630 l | J.S.A. | | | | | |
| المراجعة المنابعة والمراجعة والمنابعة والمراجعة والمنابعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة وا | | | .1 | | | | | | .1 | | | 1 | |
| | SEC | TION | 2. H | AZAI | RDS I | DENT | FIFIC | ATIO | N | } | | : · · | |
| SECTION 2. HAZARDS IDENTIFICATION | Classi | ification o | of the su | bstance | e or mixt | ure in ac | cordan | ce with 2 | 9 CFR ² | 1910 (O | SHA HCS |)' | |

| GHS07 | | | | | | | | | | |
|------------------|-----------|----------|----------|-----------|--------|-------|-------|-------------|---------|--|
| Eye Irrit. 2A H3 | | | | | | | | | | |
| Hazards not otl | herwise | classif | ied | | | | | | | |
| No data availat | ble | | | | | | | | | |
| GHS label elen | nents | | | · · ' | | · · . | · · ' | · · · · | · · · ' | |
| GHS label elen | nents, ir | ncludinę | g precau | tionary s | tateme | nts | | | | |
| Hazard pictogra | ams | | | | | | | | | |
| GHS07 | : • • | | | : | } | | ; • • | | | |
| Signal word | ' | | | | | | | | | |

| Warning | ' | | · · · | | | | ' | | · · . | | | |
|----------------------------------|------------|-----------|-------------|----------|--------|-------------|---------|---------|-------------|-----------------|-------|---|
| Hazard statemen | ts | | | | | | | | | | | |
| H319 Causes ser | rious ey | /e irrita | tion. | | | | | | | | | |
| Precautionary sta | atement | ts | | | | | | | | | | |
| P280 Wear prote | ctive gl | oves/p | rotective | | | otection/fa | | | | | | |
| P264 Wash thoro several minutes. | | | - | 805+P35 | 51+P33 | 8 IF IN EY | /ES: Ri | nse cai | utiously wi | th wate | r for | |
| lenses, if present | and ea | asy to c | lo. Contin | ue rinsi | ng. | | .÷ | | | .: | | |
| P337+P313 If eye | e irritati | - | | | | | | | | | | |
| WHMIS classifica | ation | | н н н | 111 | | | : ' ' | 1 | | : • • | | |
| D2B - Toxic mate | erial cau | using o | ther toxic | effects | | · · . | | | | | | |
| Classification sys | tem | | | | | | | | | | | |
| HMIS ratings (sca | | | 1.1.1 | | 1.1.1 | | , ' | | | .' | | |
| (Hazardous Mate | rials Id | entifica | ition Syste | em) | | | | 1 | | | 1 | |
| HEALTH | | | ı. | | 1 | | , | | | | | |
| FIRE | ' | | | | 1.1.1 | | ' | | | 1. ¹ | | |
| REACTIVITY | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | |
| 0 | | | | | | | | | | : • • | | , |
| 1 | | | | | | | | | | | | |
| Health (acute effe | ects) = | 1 | | | 1.1.1 | 11. | | | | | | |
| Flammability = 0 | .: | | | | | | | | | .: | | |
| Physical Hazard | = 1 | | | | | | | | | | | |
| Other hazards | | | · · · | | | | | | | ; • • | | , |
| Results of PBT a | nd vPv | Basse | ssment | ' | | | ' | | | | | |
| PBT: | | | | | | | | | | | | |
| N/A | | | | | | | .: | | | | | |
| vPvB: | | | | | | | | | | | | |
| N/A | | | | | | | | | | | | |
| | | | | | | | | | | | | |

11.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substances | | | | | | | | | | |
|--|------------|------------|---------|---------------|-----------|----------|------------|-------|---|---|
| CAS No. / Substance Name: | | | | | | | | | | |
| 12061-16-4 Erbium(III) oxide | 1 I | : * * | | н н н | | | · · · | 111 | | |
| Identification number(s): | | | | | | | | | | |
| EC number: 235-045-7 | | | | | | | | | | |
| | · · · | | : | 1 - 1 1 | : | : | 1 - 1 1 | | ; | |
| SECTION 4. FIRST | | IEAS | SURE | S | | | · · . | | | |
| Description of first aid measur If inhaled: | es | | | | 1 | | | .: | | , |
| Supply patient with fresh air. I | f not brea | athing, p | orovide | artificial re | spiratio | on. Kee | p patient | warm. | | |
| Seek immediate medical advi | | | | | | | | | | |
| In case of skin contact: | | | | | ' | | 11. | | | |
| Immediately wash with soap a | and water | r; rinse t | horoug | hly. | | | | | | |
| Seek immediate medical advi | ce. | | | | | | | | | |
| In case of eye contact: | 1 I | | | 1 I 1 | : ' ' | | н н н | | | |
| Rinse opened eye for several | minutes | under ru | unning | water. Cor | nsult a j | ohysicia | an. | | | |
| If swallowed: | | | | | | | | | | |
| Seek medical treatment. | | .1 | | | | | | | | |
| Information for doctor | | | | | | | | | | |
| Most important symptoms and | l effects, | both ac | ute and | l delayed | | | н н н | 111 | | |
| No data available | | | | | | | | | | |
| Indication of any immediate m | edical at | tention a | and spe | ecial treatn | nent ne | eded | | | | |
| No data available | | | | | | | | | | |
| | | | | | | | | | | |

SECTION 5. FIREFIGHTING MEASURES

| Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Metal oxide fume Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | | | | | 1 | | | | | | | |
|--|--------------------------|----------|-------------|--------|----------|-------------|---------|--------|-------|-----|---|---|
| Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Metal oxide fume Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | Extinguishing media | | ···. | | | ••• | ' | | | | | |
| Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Metal oxide fume Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | Suitable extinguishing | agents | | | | | | | | | | |
| If this product is involved in a fire, the following can be released: Metal oxide fume Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | Product is not flammab | ole. Use | fire-fighti | ng mea | isures t | hat suit th | e surro | unding | fire. | .1 | | |
| If this product is involved in a fire, the following can be released: Metal oxide fume Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | | | | | | | | | | | | |
| Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | | | | | | released | : | 1 | | 1.1 | | |
| Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | Metal oxide fume | | · · . | | | · · . | | | · · . | | | , |
| Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | Advice for firefighters | | | ; | | | | | | : | | |
| Wear fully protective impervious suit. | | | | I | | | | | | | | |
| Wear fully protective impervious suit. | Wear self-contained re | spirator | • | | | | | 1 | | | 1 | |
| <u>and and an and a second sec</u> | Wear fully protective in | nperviou | | | i. | · | | i. | | | | |
| | and the second second | | | | | | | | | | | , |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Keep unprotected persons away. | | | | | | | | | | | | | |
|--|-------------|----------|---------|-----------|------------|---------|-------|----|---|--|--|--|--|
| | | | | | | | | | | | | | |
| Ensure adequate ventilation | | | 1.1.1 | | | | | | | | | | |
| Environmental precautions: | | | | | | | | .1 | | | | | |
| Do not allow material to be relea | ased to the | e enviro | onment | without o | fficial pe | ermits. | | | | | | | |
| Methods and materials for containment and cleanup: Pick up mechanically. | | | | | | | | | | | | | |
| Pick up mechanically. | · · . | ' | | · · . | | | · · . | | | | | | |
| Prevention of secondary hazard | ls: | | | | | | | | | | | | |
| No special measures required. | | | | | | | | | | | | | |
| Reference to other sections | | | | | | | | | | | | | |
| See Section 7 for information or | n safe han | dling | | | | | | | - | | | | |
| See Section 8 for information or | n personal | protec | tion eq | uipment. | | | · · . | ' | | | | | |
| See Section 13 for disposal info | rmation. | .: | | | .: | | | | | | | | |

SECTION 7. HANDLING AND STORAGE

Handling

| Precautions for safe handling | ' | | | | | | | | |
|--|------------|----------|------------|--------------|-----------|-----------|-----|---|---------|
| Handle under dry protective gas. | | | | | | | | | |
| Keep container tightly sealed. | . : | | | | | | | | |
| Store in cool, dry place in tightly close Ensure good ventilation at the workpl | 111 | ners. | · · | | ; | | : | - | |
| Information about protection against e | | s and fi | res: | | | | | | · · . |
| The product is not flammable Conditions for safe storage, including | any inco | | | .: | | | .1 | | |
| Requirements to be met by storeroon | ns and ree | ceptacl | es: | | 1 | | | : | |
| No special requirements. | | 1 | ı | | , | | | | |
| Information about storage in one com | mon stor | age fac | ility: | ¹ | | 11 | | | · · . |
| Store away from oxidizing agents. | | | | | | | .1 | | |
| Store away from water/moisture. | | | | | | | | | |
| Further information about storage cor | nditions: | | | 111 | 1 | | | | |
| Store under dry inert gas. | | | | | | | | | |
| This product is hygroscopic. | | | 11. | · · · ' | | | | | · · · . |
| Keep container tightly sealed. | | | | | | | | | |
| Store in cool, dry conditions in well-se | ealed con | tainers | Protect f | rom hum | nidity ar | nd water. | | | |
| Specific end use(s) | | | 1 - 1 1 | 111 | 1 | | 111 | | |
| No data available | * | | · · . | * | | ···. | * | | ••• |
| | | | | | | | | | |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:

None.

| | | | | 1 | | | | | | |
|----------|---|--|--|--|--|---|---|--|--|---|
| | · · . | | | · · . | ' | | | | | |
| | | | | | | | | | | |
| | | | 1.1.1 | | | | | | | |
| pment | | | | | | | | | | |
| and hy | gienic pra | ctices f | or hand | lling chem | nicals. | | | | | |
| ffs, bev | erages ar | nd feed | | · · . | | | · · . | ' | | |
| ontamir | nated cloth | ning im | mediate | ely. | : | | | : | | |
| | | | | | 1 | | | | | |
| /es. | 1 I | | : | | | : | | | : | |
| | | | 1 | , | | , | , | | | |
| lly appr | opriate wo | orking e | environr | nent. | | | | ' | | |
| | | .1 | | | .: | | | .: | | |
| /hen hi | gh concer | ntration | s are pr | esent. | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| se. | | | | | | | | | | |
| ıld be d | letermined | d both k | oy mate | rial and qu | uality, tl | he latte | r of which | may va | ary | |
| | н н н | ; • • | | н н н | | | н н н | ; • • | | |
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| | · · · | | 1 | | | 1 | | | | , |
| | | | | | | | · · · | | | |
| | pment and hy ffs, bev ontamir iks and /es. /es and /es. /ly appr /hen hig se. ild be d | pment and hygienic pra ffs, beverages ar ontaminated cloth iks and at the end /es. /es and skin. Ily appropriate wo /hen high concer se. Ild be determined | pment and hygienic practices f ffs, beverages and feed ontaminated clothing im iks and at the end of wo /es. /es and skin. lly appropriate working e /hen high concentrations se. lld be determined both k | pment and hygienic practices for hand ffs, beverages and feed. ontaminated clothing immediate iks and at the end of work. /es. /es and skin. lly appropriate working environr /hen high concentrations are pr se. lld be determined both by mate | pment and hygienic practices for handling chem ffs, beverages and feed. ontaminated clothing immediately. iks and at the end of work. /es. /es and skin. lly appropriate working environment. /hen high concentrations are present. se. uld be determined both by material and que | pment and hygienic practices for handling chemicals. ffs, beverages and feed. ontaminated clothing immediately. iks and at the end of work. /es. /es and skin. lly appropriate working environment. /hen high concentrations are present. Se. lld be determined both by material and quality, the material (in minutes) | pment and hygienic practices for handling chemicals. ffs, beverages and feed. ontaminated clothing immediately. iks and at the end of work. /es. /es and skin. Ily appropriate working environment. /hen high concentrations are present. se. ild be determined both by material and quality, the latte | pment and hygienic practices for handling chemicals. ffs, beverages and feed. ontaminated clothing immediately. iks and at the end of work. /es. /es and skin. Ily appropriate working environment. /hen high concentrations are present. /hen high concentrations are present. | prment and hygienic practices for handling chemicals. ffs, beverages and feed. Ifs, beverages | pment and hygienic practices for handling chemicals. ffs, beverages and feed. intaminated clothing immediately. iks and at the end of work. //es. //es. //es. //es and skin. Ily appropriate working environment. //hen high concentrations are present. // hen high concentrations are present. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

| | 1 | | | | | | 1 | | | | |
|-----------------------------------|-----------|------------|--------------|---------|----------|--------------|---|----------|-------|---|---------|
| Form: Powder, lump, o | r solid i | n various | forms | | | | | | | | |
| Color: No data availabl | е | | | | | | | | | | |
| Odor: No data available | e | | | | | .1 | | | | | |
| Odor threshold: No dat pH: N/A | | | ;··· | ; | н н н | ; | : | н н н | | ; | |
| Melting point/Melting ra | ange: 24 | 400 ,°C (4 | 352 °F) | | · · . | | | · · . | | | · · . |
| Boiling point/Boiling rar | | | ilable | | | | | | | | |
| Sublimation temperatu | | t: No data | | | | | | | . ' | | |
| Flammability (solid, gas | s) | | | 1 | | | | | | | |
| No data available.Igniti | on tem | perature: | No data | availa | ble | | | | | | |
| Decomposition temper | ature: N | lo data av | vailable | | | ¹ | | · · . | | | ۰. |
| Autoignition: No data a | vailable | . | .: | | | | | | .: | | |
| Danger of explosion: N | | | | | | | | | | | |
| Explosion limits: | | | | | | 111 | | | ; • • | | |
| Lower: No data availab | | | | | | | | | | | |
| Upper: No data availab | | | | | | | | | | | · · · . |
| Vapor pressure: N/A | | | | | | .1 | | | | | |
| Density at 20 °C (68 °F | ;): 8.64 | g/cm | | | | | | | | | |
| 3 | | · · | | | н н 1 | | - | · · · | : * * | | |
| (72.101 lbs/gal) | | | | | | | | | | | |
| Relative density | | | | | | | | | | | |
| No data available. | | | | | | | | | | | |
| Vapor density | | | | | | | | | | | |
| N/A | | | | | | | | | : | | |
| Evaporation rate | | · · . | | | 11. 1 | ¹ | | 11. 1 | | | · · . |
| N/A | | | | | | | | | | | |
| Solubility in / Miscibility | with W | ater at 24 | 4 °C (75 | °F): 0. | 0049 g/l | . ' | | | | | |
| Partition coefficient (n-o | octanol | /water): N | lo data a | vailab | le. | | ; | | | | |
| Viscosity: | i | | · | | | | | | | 1 | |
| Dynamic: N/A | | | ¹ | | · · . | ¹ | | | | | ۰. |

| Kinematic: N/A | | | ' | | | | | | | | |
|--|-----------|--------------|----------|-----|----------|--------------|----|--------------|------------|---|---|
| Other information | | | | | | | | | | | |
| No data available | | | .1 | | | .: | | | | | |
| | | | | | | | | r - 1 1 | | : | |
| SECTION 10. | STAB | | | REA | | ITY | | | | | |
| Reactivity No data available | | | .1 | | | .: | | | . : | | |
| Chemical stability Stable under recomme | | | | | 1 I. | | : | 1 - 1 - | 1 1 1 1 | | , |
| Thermal decomposition | | | | | 11. 1 | | | 11. 11. | | | |
| Decomposition will not | | | | | | | | | | | |
| Possibility of hazardou | | | , | | | 1 | | | , | | |
| No dangerous reaction | s knowr | 1 ' ; | | | · · · | | | | | | |
| Conditions to avoid No data available | | ··., | ' | | ···. | ' | | <i></i> | | | |
| Incompatible materials | | | .1 | | | | | | .: | | |
| Water/moisture Oxidizing agents | | · · · | | 1 | | | | | ;··· | } | |
| Hazardous decomposi | tion proc | lucts: | | | · · · . | ¹ | | · · . | | | |
| Metal oxide fume | | | : | | | : | | | : | | |
| | | | | | | , | | | | | |
| SECTION 11. 1 | ΓΟΧΙΟ | COLOC | GICA | LIN | FORM | | ON | 1 - 1 - 1 | :** | } | |
| Information on toxicolo | gical eff | ects | | | | | | | * | | |
| Acute toxicity: No effects known. | | | | | | .: | | | 1 | | |
| LD/LC50 values that an No data | re releva | ant for clas | sificati | on: | | | : | н н н | 1 1 1 1 | ; | , |

Skin irritation or corrosion:

| | | | 1 1 1 | | | | 1 | | | | |
|-----------------------------|----------|---------------|----------------------|----------|---------|--------------|---|---------|---------|---|------|
| May cause irritation | | · · · | | | · · . | | | | | | |
| Eye irritation or corrosion | n:Cau | ses seriou | s eye ir | ritation | | | | | | | |
| Sensitization: | | | | | | | | | | | |
| No sensitizing effects kn | iown. | | | | | | | | | | |
| Germ cell mutagenicity: | | | | | | | | | | | |
| No effects known. | | | | | | ¹ | | · · · . | | | •••. |
| Carcinogenicity: | | | : | | | : | | | : | | |
| No classification data or | ı carcir | | | | | 1 | | | | | |
| NTP, OSHA or ACGIH. | : | | | : | | | | | | : | |
| Reproductive toxicity: | | | | ; | 1 | | | 1 | | 1 | |
| No effects known. | | · · · | ' | | | ' | | · · . | 1.1 | | •••. |
| Specific target organ sys | stem to | oxicity - re | peated | exposi | lre: | | | | .: | | |
| No effects known. | | | | | | | | | | | |
| Specific target organ sys | stem to | oxicity - sir | ıgle ex _l | poșure: | | | | | : | | |
| No effects known. | | | | | | | | | | | |
| Aspiration hazard: | | · · · | | | · · · . | ' | | · · · . | · · · ' | | ···. |
| No effects known. | | | | | | | | | | | |
| Subacute to chronic toxi | city: | | | | | | | | | | |
| No effects known. | | н н н | | | · · · | | 1 | · · · | | | |
| Additional toxicological i | nforma | ation: | | | | | | | | | |
| To the best of our knowl | edge t | | | | | | | | | | - |
| | | | | | | | | | | | |

SECTION 12. ECOLOGICAL INFORMATION

| Toxicity | | · · . | | · · . | ¹ | | · · . | | | |
|--|------------|-------|----|-------------|--------------|---|-------|----|---|--|
| Aquatic toxicity: No data available | | | .: | | .1 | | | .: | | |
| Persistence and deg | radability | · · · | | | ;··· | 1 | | | 1 | |
| Bioaccumulative pote | ential | · · . | ' | · · · . | ' | | · · . | | | |

| | | | | | | | | | | ' | |
|-------------------------|-----------|------------|------------|----------|------------|--------------|----------|----------|-----------|-----|--|
| No data available | | | ' | | | | | | | | |
| Mobility in soil | | | | | | | | | | | |
| No data available | | | | | | | | | | | |
| Additional ecological i | nformati | on: | | | | | | | | | |
| Do not allow material | to be rel | eased to | the env | ironme | nt withou | it official | permits | 5. | | | |
| Do not allow undiluted | l produc | t or large | e quantiti | es to re | each grou | undwate | r, water | courses | , or sewa | age | |
| systems. | | | | | | | | | | | |
| Avoid transfer into the | | | | | | | | | | | |
| Results of PBT and vi | PvB asse | 1 1 | 111 | | | 111 | | | 111 | | |
| PBT: | | | | | | | | | | | |
| N/A | | · · · . | ' | | | ' | | · · · · | | | |
| vPvB: | | | | | | ,ł | | | | | |
| N/A | | | | | | | | | | | |
| Other adverse effects | | н н н | 111 | | 1 - 1 1 | 111 | | н н н | :** | | |
| No data available | | | | | · · . | | | | | | |
| | | | | | | | | | | | |
| SECTION 13. | | | | | | | | | | | |
| Waste treatment meth | | | | | | | | | | 1 | |
| | | | | | | | | | | | |
| Recommendation | | | | | | ¹ | | · · . | | | |
| Consult official regula | | | | | | | | | | | |
| | | | | | | | | | | | |
| Disposal must be mad | | - | | | | 111 | | | | | |
| | | | | | | | | | | | |
| SECTION 14. | | | | | | | | · · · . | | | |
| UN-Number | | | .1 | | | .1 | | | .: | | |
| DOT, ADN, IMDG, IA | ТА | · · · | 1 1 1 1 | 1 | 1 I | | | | | | |
| N/A | | | | | | | | | | | |

UN proper shipping name

| | | | | | 1 | | | 1 | 1 | |
|---------------------------|--------------|-------------|---------|---------|------------|-----------|--------|------------|-----|---|
| DOT, ADN, IMDG, IATA | · | | | | · , | | | | | |
| N/A | | | | | | | | | | |
| Transport hazard class(e | es) | | | | | | | | | |
| DOT, ADR, ADN, IMDG | | | | | | | | | | |
| Class | | | | | | | | | | |
| N/A | | | | · · · | · . | | | · · . | | |
| Packing group | | | | | | | | | | |
| DOT, IMDG, IATA | | | | | | | | | | |
| N/A | | | | | | | | | | ; |
| Environmental hazards: | | | | | | | | | | |
| N/A | | · | | , , , | | | | 11. | | |
| Special precautions for u | uşer | | | | | | | | .: | |
| N/A | | | | | | | | | | |
| Transport in bulk accord | ing to An | nex II of M | ARPO | L73/78 | and the I | BC Co | de | | ;** | |
| N/A | | | | | | | | | | |
| Transport/Additional info | | · · · · | | | | | | · · . | | |
| DOT | | | | | | | | | .: | |
| Marine Pollutant (DOT): | | | | | | | | | | |
| No | 1 | : | | | : | | | | | : |
| in a superior and | | | | · · | · . | · · · · · | | · · . | | |
| SECTION 15. R | EGUL | ATOR | Y IN | FOR | MATIC | ON | | | .: | |
| Safety, health and enviro | onmental | regulation | s/legis | ation s | pecific fo | r the su | bstanc | e or mixtu | ire | |
| GHS GHS label element | ts, includi | ng precau | tionary | statem | ents | | | | | |
| Hazard pictograms | | · . · · · | | , , | · . | | | · · . | | |
| GHS07 | | | | | | | | | | |
| Signal word | | | | | | | | | | |
| Warning | | | | | | | | | | |
| Hazard statements | | 1 | | , | | | 1 | | 1 | ; |
| H319 Causes serious ey | /eˈirritatio | 'n. | | · · · | · . | | | • • • | | |
| | | | | | | | | | | |

Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed.California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.