

| Version 10.0 | Revision Date: 11/04/2020 | SDS Numbe 119985-000 | |
|-----------------|--------------------------------|-------------------------|---|
| SECTIO | N 1. IDENTIFICATION | | |
| Proc | duct name | : COPR | PLUS |
| SDS | S-Identcode | : 377G | |
| Man | ufacturer or supplier's | details | |
| Corr Add | npany name of supplier ress | : 2126 Va | e Corporation anco Drive X 75061, |
| Tele | phone | • | 3-9164/972-865-8961 |
| Tele | | : 214-631 | |
| Eme | ergency telephone | | REC U.S.: 800-424-9300, International 703-527-3887 rs/7 days) |
| E-m | ail address | : www.be | stolife.com |
| Rec | ommended use of the | chemical and | restrictions on use |
| Rec | ommended use | Offshore | al use Compound (Pipe Dope) and Jacking grease for use in e industries (without offshore industries) |
| Res | trictions on use | | use on oxygen lines or in oxygen enriched atmos- |

SECTION 2. HAZARDS IDENTIFICATION

| GHS classification in acc 1910.1200) | dance with the OSHA Hazard Communication Standard (29 CFR |
|---|---|
| Eye irritation | : Category 2A |

| GHS | label | elements | 5 |
|------|--------|-------------|---|
| 0.10 | ia soi | 01011101110 | , |

| Hazard pictograms | : | |
|--------------------------|---|---|
| Signal Word | : | Warning |
| Hazard Statements | : | H319 Causes serious eye irritation. |
| Precautionary Statements | : | Prevention: P264 Wash skin thoroughly after handling. P280 Wear eye protection and face protection. |
| | | Response: 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 attention. |



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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| eempenente | | |
|--|---|-----------------------|
| Chemical name | CAS-No. | Concentration (% w/w) |
| Distillates (petroleum), hydrotreated light naphthenic | 64742-53-6 | >= 30 - < 50 |
| Graphite | 7782-42-5 | >= 10 - < 20 |
| Copper metal powder Talc | 7440-50-8 | >= 10 - < 20 |
| Talc | 14807-96-6 | >= 5 - < 10 |
| Calcium oxide | 1305-78-8 | >= 5 - < 10 |
| Dolomite | 16389-88-1 | >= 1 - < 5 |
| Quartz | 14808-60-7 | >= 1 - < 5 |
| A standard strategies in the fill state of a | 1 · · · 1 · · · · · · · · · · · · · · · | |

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
|---|---|--|
| If inhaled | : | If inhaled, remove to fresh air. |
| In case of skin contact | : | Get medical attention if symptoms occur. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| In case of eye contact | : | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. |
| If swallowed | : | If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed | : | Causes serious eye irritation. |
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). |
| Notes to physician | : | Treat symptomatically and supportively. |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Water spray |
|------------------------------|---|------------------------|
| | | Alcohol-resistant foam |
| | | Carbon dioxide (CO2) |
| | | Dry chemical |



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| | Insuitable extinguishing nedia | : | None known. | |
| | Specific hazards during fire ghting | : | Exposure to com | pustion products may be a hazard to health. |
| Hazardous combustion prod- ucts | | : | Carbon oxides Metal oxides | |
| | Specific extinguishing meth- ids | : | cumstances and Use water spray t | measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do |
| | Special protective equipment or fire-fighters | : : | In the event of fire | e, wear self-contained breathing apparatus. tective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | • | Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). |
|---|---|--|
| Environmental precautions | : | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : | Sweep up or vacuum up spillage and collect in suitable container for disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

SECTION 7. HANDLING AND STORAGE

| Technical measures | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. | |
|-----------------------------|--|-------|
| Advice on safe handling | For outdoor use only Do not get on skin or clothing. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposur assessment Take care to prevent spills, waste and minimize release environment. | re |
| Conditions for safe storage | Keep in properly labeled containers. Store in accordance with the particular national regulati | ons |
| Materials to avoid | Do not store with the following product types: | 0.101 |



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|---|--|

Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|---|------------|--|--|-----------|
| Distillates (petroleum), hydrotreated light naphthenic | 64742-53-6 | TWA (Mist) | 5 mg/m³ | OSHA Z-1 |
| | | TWA (Inhal- able particu- late matter) | 5 mg/m³ | ACGIH |
| | | TWA (Mist) | 5 mg/m ³ | NIOSH REL |
| | | ST (Mist) | 10 mg/m ³ | NIOSH REL |
| Graphite | 7782-42-5 | TWA (Res- pirable) | 2.5 mg/m ³ | NIOSH REL |
| | | TWA (Res- pirable par- ticulate mat- ter) | 2 mg/m³ | ACGIH |
| | | TWA (Dust) | 15 Million particles per cubic foot | OSHA Z-3 |
| Copper metal powder | 7440-50-8 | TWA (Dust and mist) | 1 mg/m³ (Copper) | ACGIH |
| | | TWA (Fumes) | 0.2 mg/m ³ (Copper) | ACGIH |
| | | TWA (Dust) | 1 mg/m ³ (Copper) | NIOSH REL |
| | | TWA (Mist) | 1 mg/m ³ (Copper) | NIOSH REL |
| | | TWA (dusts and mists) | 1 mg/m ³ (Copper) | OSHA Z-1 |
| | | TWA (Fumes) | 0.1 mg/m ³ (Copper) | OSHA Z-1 |
| Talc | 14807-96-6 | TWA (Dust) | 20 Million particles per cubic foot | OSHA Z-3 |
| | | TWA (Res- pirable) | 2 mg/m ³ | NIOSH REL |
| | | TWA (Res- pirable par- ticulate mat- ter) | 2 mg/m³ | ACGIH |
| Calcium oxide | 1305-78-8 | TWA | 2 mg/m ³ | ACGIH |
| | | TWA | 2 mg/m ³ | NIOSH REL |
| | | TWA | 5 mg/m ³ | OSHA Z-1 |
| Dolomite | 16389-88-1 | TWA (Res- pirable) | 5 mg/m³ (Calcium car- bonate) | NIOSH REL |
| | | TWA (total) | 10 mg/m ³ | NIOSH REL |



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| | | | | (Calcium car- bonate) | |
| Quart | Z | 14808-60-7 | TWA (Res- pirable dust) | 0.05 mg/m ³ | OSHA Z-1 |
| | | | TWA (respir- able) | 10 mg/m3 / %SiO2+2 | OSHA Z-3 |
| | | | TWÁ (respir- able) | 250 mppcf / %SiO2+5 | OSHA Z-3 |
| | | | TWA (Res- pirable par- ticulate mat- ter) | 0.025 mg/m³ (Silica) | ACGIH |
| | | | TWA (Res- pirable dust) | 0.05 mg/m ³ (Silica) | NIOSH REL |
| | | | PEL (respir- able) | 0.05 mg/m ³ | OSHA CARC |
| | e substance(s) are in lust inhalation hazar Quartz | | n the product a | nd therefore do no | ot contribute |
| Engir | neering measures | Dust formation product. In a limitations of workplaces h assessment. Particulates l dust, 5 mg/m Particles (ins | on may be releva ddition to substa concentrations of ave to be consid Relevant limits i Not Otherwise Re 3 - respirable fra oluble or poorly 3 mg/m3 - respira | e concentrations. Int in the processing nce-specific OELs, of particulates in the lered in workplace nclude: OSHA PEL egulated of 15 mg/r action; and ACGIH soluble) Not Otherv able particles, 10 m | general e air at risk - for m3 - total TWA for vise |
| Perso | onal protective equip | oment | | | |
| Resp | iratory protection | maintain vap concentratior unknown, ap Follow OSH/ | or exposures be ns are above rec propriate respira A respirator regul | ntilation is recomm low recommended ommended limits o tory protection sho lations (29 CFR 19 respirators Protect | limits. Where r are uld be worn. 10.134) and |

use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

resistance to chemicals of the aforementioned protective

Hand protection

| Material | : | Chemical-resistant gloves |
|----------|---|---|
| Remarks | : | Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the |



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| Skir | protection n and body protection jiene measures | : | breaks and at the Wear the followin Safety goggles Select appropriat resistance data a potential. Skin contact mus clothing (gloves, If exposure to che eye flushing syste working place. When using do n | love manufacturer. Wash hands before e end of workday. ag personal protective equipment: the protective clothing based on chemical and an assessment of the local exposure at be avoided by using impervious protective aprons, boots, etc). emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. ted clothing before re-use. |
| SECTIO | N 9. PHYSICAL AND CH | ΞΜΙΟ | CAL PROPERTIE | S |
| Арр | earance | : | Viscous semi-sc | lid |
| Colo | or | : | copper | |
| Odo | n | : | Petroleum | |
| Odo | or Threshold | : | No data availabl | e |
| рН | | : | Not applicable (r | not an aqueous solution) |
| Melt | ting point/freezing point | : | No data availabl | e |
| Initia rang | al boiling point and boiling ge | : | No data availabl | e |
| Flas | sh point | : | Not applicable | |
| Eva | poration rate | : | Not applicable | |
| Flan | mmability (solid, gas) | : | Not classified as | a flammability hazard |
| | per explosion limit / Upper nmability limit | : | No data availabl | e |
| | ver explosion limit / Lower nmability limit | : | No data availabl | e |
| Vap | or pressure | : | Not applicable | |
| Rela | ative vapor density | : | Not applicable | |
| Rela | ative density | : | 1.2 | |
| Den | nsity | : | No data availabl | e |
| | ubility(ies) Water solubility | : | negligible | |



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| octa | tion coefficient: n- nol/water | : | Not applicable | |
| Auto | ignition temperature | : | No data available | |
| Deco | omposition temperature | : | No data available | 9 |
| Visco V | osity iscosity, dynamic | : | No data available |) |
| V | Viscosity, kinematic | | Not applicable | |
| Flow | time | : | No data available |) |
| Expl | osive properties | : | Not explosive | |
| Oxid | izing properties | : | The substance o | r mixture is not classified as oxidizing. |
| Mole | ecular weight | : | No data available |) |
| Parti | cle size | : | No data available | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | Not classified as a reactivity hazard. |
|-------------------------------------|---|--|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reac- | : | Can react with strong oxidizing agents. |
| tions | | |
| Conditions to avoid | : | None known. |
| Incompatible materials | : | Oxidizing agents |
| Hazardous decomposition products | : | No hazardous decomposition products are known. |

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

| Distillates (petroleum), hydrotreated light naphthenic: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg | | | | | | |
|--|---|---|--|--|--|--|
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 | | | | |
| Acute inhalation toxicity | : | LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- | | | | |



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| I | | tion toxicity | |
| Acute | e dermal toxicity | : LD50 (Rabbit Assessment: toxicity | :): > 2,000 mg/kg The substance or mixture has no acute dermal |
| Grap | hite: | | |
| - | e oral toxicity | | 2,000 mg/kg D Test Guideline 423 The substance or mixture has no acute oral tox- |
| Acute | e inhalation toxicity | | |
| | per metal powder: | | |
| UL | e oral toxicity | | 2,500 mg/kg D Test Guideline 423 The substance or mixture has no acute oral tox- |
| Acute | e inhalation toxicity | Method: OEC | |
| Acute | e dermal toxicity | | 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal |
| | | | |
| u | e oral toxicity | : LD50 (Rat): > Remarks: Ba | 5,000 mg/kg sed on data from similar materials |
| | ium oxide: | | |
| | e oral toxicity | : LD50 (Rat): > Method: OEC | ▶ 2,000 mg/kg CD Test Guideline 425 |
| Acute | e inhalation toxicity | Method: OEC | |
| Acute | e dermal toxicity | |): > 2,500 mg/kg CD Test Guideline 402 The substance or mixture has no acute dermal |



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| | | toxicity Remarks: Bas | ed on data from similar materials |
| Dolo | mite: | | |
| LL. | e oral toxicity | Assessment: icity | 2,000 mg/kg D Test Guideline 420 The substance or mixture has no acute oral tox- ed on data from similar materials |
| Acute | inhalation toxicity | tion toxicity | ə: 4 h |
| Acute | e dermal toxicity | Assessment: toxicity | 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal sed on data from similar materials |
| Quar | tz: | | |
| UL. | e oral toxicity | : LD50 (Rat): > | 5,000 mg/kg |
| Not c Com | corrosion/irritation lassified based on ava ponents: lates (petroleum), hy | | ohthenic: |
| Speci Resu | ies It | : Rabbit : No skin irritati | on |
| Grap | hite: | | |
| Speci Metho Resu | ies od | : Rabbit : OECD Test G : No skin irritati | |
| | er metal powder: | | |
| Speci Metho Resu | ies od | : Rabbit : OECD Test G : No skin irritati | |
| II. . | | | |
| Talc: Speci Resu | | : Rabbit : No skin irritati | on |
| Calci | um oxide: | | |



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|---|------------------------------|--|---|--|
| Specie Methor Result Remar | d | : Skin irritatior | Guideline 404 า ata from similar materials | |
| Dolom Specie Methoo Result Remar | es d | : No skin irrita | Guideline 404 tion ta from similar materials | |
| | is eye damage/eye irr | | | |
| Produce Result | | | eyes, reversing within 21 days | |
| Comp | onents: | | | |
| Distilla | ates (petroleum), hyd | rotreated light na | aphthenic: | |
| Specie | | : Rabbit | | |
| Result | | : No eye irrita | tion | |
| Graph Specie Result Method | S | : Rabbit : No eye irrita : OECD Test | tion Guideline 405 | |
| Сорре | er metal powder: | | | |
| Specie | | : Rabbit | | |
| Result | | : No eye irrita | | |
| Method | | : OECD Test | Guideline 405 | |
| Talc: | | | | |
| Specie | S | : Rabbit | | |
| Result | | : No eye irrita | tion | |
| Calciu | m oxide: | | | |
| Specie | | : Rabbit | | |
| Result | | | effects on the eye | |
| Method | b | : OECD Test | Guideline 405 | |
| Dolom | lite: | | | |
| Specie | | : Rabbit | | |
| Result | | : No eye irrita | tion | |
| Method | d | : OECD Test | Guideline 405 | |
| Remar | ks | : Based on da | ta from similar materials | |
| | | | | |



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| Respi | ratory or skin sensit | ization | |
| | sensitization assified based on ava | ilable information. | |
| - | ratory sensitization assified based on ava | ilable information. | |
| <u>Comp</u> | onents: | | |
| Distill | ates (petroleum), hy | drotreated light nap | ohthenic: |
| Test T Route Specie Metho Result | s of exposure es od | Buehler Test Skin contact Guinea pig OECD Test G negative | uideline 406 |
| Graph | nite: | | |
| Test T | ⁻ype s of exposure es | : Local lymph n : Skin contact : Mouse : negative | ode assay (LLNA) |
| Сорре | er metal powder: | | |
| Test T Route Specie Metho Result | s of exposure es od | : Maximization : Skin contact : Guinea pig : OECD Test G : negative | |
| Talc: | | | |
| U . | | : Skin contact : Humans : negative | |
| | um oxide: | | |
| Test T | ⊽pe s of exposure es od t | Skin contact Mouse OECD Test G negative | ode assay (LLNA) uideline 429 a from similar materials |
| Dolon | nite: | | |
| Test T | ype s of exposure es d | Skin contact Mouse OECD Test G negative | ode assay (LLNA) uideline 429 a from similar materials |



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| Germ | cell mutagenicity | | |
| Not c | lassified based on av | ailable information. | |
| <u>Com</u> | ponents: | | |
| Distil | lates (petroleum), h | ydrotreated light nap | hthenic: |
| u. | toxicity in vitro | : Test Type: Ba | cterial reverse mutation assay (AMES) D Test Guideline 476 |
| Geno | toxicity in vivo | cytogenetic as Species: Mous Application Ro | e ute: Intraperitoneal injection D Test Guideline 474 |
| Grap | hite: | | |
| | toxicity in vitro | | cterial reverse mutation assay (AMES) D Test Guideline 471 /e |
| | | | vitro mammalian cell gene mutation test D Test Guideline 476 ve |
| | | | romosome aberration test in vitro D Test Guideline 473 /e |
| II II conn | er metal powder: | | |
| | toxicity in vitro | | cterial reverse mutation assay (AMES) D Test Guideline 471 /e |
| Geno | toxicity in vivo | cytogenetic as Species: Mous Application Ro Method: Direct Result: negativ | ute: Ingestion ive 67/548/EEC, Annex V, B.12. |
| Talc: | | | |
| UL. | toxicity in vitro | | A damage and repair, unscheduled DNA syr nalian cells (in vitro) /e |
| Geno | toxicity in vivo | : Test Type: Ch Species: Rat Application Ro Result: negativ | |



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| Calci | um oxide: | | |
| Genotoxicity in vitro | | | cterial reverse mutation assay (AMES) D Test Guideline 471 /e |
| | | Method: OECI Result: negativ | |
| | | Remarks: Base | ed on data from similar materials |
| | | | /itro mammalian cell gene mutation test D Test Guideline 476 /e |
| | | Remarks: Bas | ed on data from similar materials |
| Dolor | nite: | | |
| Geno | toxicity in vitro | Method: OECI Result: negativ | cterial reverse mutation assay (AMES) D Test Guideline 471 /e ed on data from similar materials |
| II | | | |
| Carci | nogenicity | | |
| | assified based on ava | ailable information. | |
| Produ | uct: | | illates have been classified as not carcinoger |
| Produ | | : Petroleum dist based on DMS | illates have been classified as not carcinoger 60 extract content < 3% (Regulation (EC) nex VI, Part 3, Note L). |
| Produ Carcin ment | uct: | : Petroleum dist based on DMS | SO extract content < 3% (Regulation (EC) |
| Produ Carcin ment | <u>uct:</u> nogenicity - Assess- ponents: | : Petroleum dist based on DMS | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distil | <u>uct:</u> nogenicity - Assess- <u>ponents:</u> lates (petroleum), hy es | : Petroleum dist based on DMS 1272/2008, An ydrotreated light nap : Mouse | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distil Speci Applic | uct: nogenicity - Assess- <u>ponents:</u> lates (petroleum), hy es cation Route | : Petroleum dist based on DMS 1272/2008, An ydrotreated light nap : Mouse : Skin contact | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distil Speci Applic | uct: nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time | : Petroleum dist based on DMS 1272/2008, An ydrotreated light nap : Mouse | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distill Speci Applic Expos Resul | uct: nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time | : Petroleum dist based on DMS 1272/2008, An ydrotreated light nap : Mouse : Skin contact : 78 weeks | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: | <u>uct:</u> nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time t | Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci | uct: nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time t | Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic | uct: nogenicity - Assess- <u>ponents:</u> lates (petroleum), hy es cation Route sure time t t | Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dustication) | hthenic: |
| Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic | uct: nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time t es cation Route sure time | Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic Expos Resul | <u>uct:</u> nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time t es cation Route sure time t | Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dus 2 Years | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distil Speci Applic Expos Resul Talc: Speci Applic Expos Resul | uct: nogenicity - Assess- <u>ponents:</u> lates (petroleum), hy es cation Route sure time t es cation Route sure time t um oxide: | Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dus 2 Years negative | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distil Speci Applic Expos Resul Talc: Speci Applic Expos Resul | Juct: hogenicity - Assess- Donents: lates (petroleum), hy es cation Route sure time t es cation Route sure time t um oxide: es | Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dus 2 Years negative Rat | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic Expos Resul Calcin Speci Applic | <u>Juct:</u> hogenicity - Assess- <u>bonents:</u> lates (petroleum), hy es cation Route sure time t um oxide: es cation Route | Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dus 2 Years negative | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |
| Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic Expos Resul Calcin Speci Applic | <pre>uct: nogenicity - Assess- ponents: lates (petroleum), hy es cation Route sure time t es cation Route sure time t um oxide: es cation Route sure time t</pre> | Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dustion) 2 Years negative Rat Ingestion 104 weeks negative | SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L). |



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|--|--|--|--|--|--|--|
| Quart Specie Applic Result Rema | es ation Route t | | st/mist/fume) nce(s) are inextricably bound in the product and ot contribute to a dust inhalation hazard. | | | |
| Carcir ment | nogenicity - Assess- | : Positive evide tion) | 1 5 (| | | |
| IARC | Group 1: Caro Quartz (Silica dust, c | cinogenic to human rystalline) | 14808-60-7 | | | |
| OSHA | OSHA specifi Quartz (crystalline sil | cally regulated card | binogen 14808-60-7 | | | |
| NTP | Quartz | human carcinogen Illine (Respirable S | 14808-60-7 ize)) | | | |
| Comp Distill Effects | assified based on availa ponents: ates (petroleum), hydr s on fertility | rotreated light nap : Test Type: Re test Species: Rat Application Ro Result: negati | production/Developmental toxicity screening oute: Ingestion ve | | | |
| Effects | s on fetal development | Species: Rat | nbryo-fetal development oute: Skin contact ve | | | |
| Grap Effect | hite: s on fertility | reproduction/c Species: Rat Application Ro Method: OEC | Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative | | | |
| Effect | s on fetal development | reproduction/c Species: Rat Application Ro | ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ve | | | |



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|-----------------|------------------------------|---|--|---|--|
| IJ | | | | | |
| Сорр | er metal powder: | | | | |
| Effect | Effects on fertility | | Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials | | |
| Effect | Effects on fetal development | | Test Type: Embryo-fetal development Species: Rabbit Application Route: Ingestion Result: negative | | |
| Talc: | | | | | |
| Effect | ts on fetal development | : | Test Type: Emb Species: Rat Application Rou Result: negative | | |
| Calci | um oxide: | | | | |
| Effect | ts on fertility | : | reproduction/de Species: Rat Application Rou Method: OECD Result: negative | Test Guideline 422 | |
| Effect | ts on fetal development | : | Species: Mouse Application Rou | te: Ingestion Test Guideline 414 | |
| Doloi | mite: | | | | |
| UL. | ts on fertility | : | reproduction/de Species: Rat Application Rou Method: OECD Result: negative | Test Guideline 422 | |
| Effect | ts on fetal development | : | reproduction/de Species: Rat Application Rou Method: OECD Result: negative | Test Guideline 422 | |



| ersion 0.0 | Revision Date: 11/04/2020 | SDS Number: 119985-00017 | Date of last issue: 05/06/2020 Date of first issue: 05/19/2015 |
|---------------|------------------------------|-----------------------------|--|
| STOT | -single exposure | | |
| | assified based on av | ailable information | |
| | oonents: | | |
| 11 | | | |
| ч. | um oxide: | | |
| Asses | ssment | : May cause res | piratory irritation. |
| | -repeated exposure | | |
| | assified based on av | ailable information. | |
| <u>Comp</u> | <u>oonents:</u> | | |
| Quart | tz: | | |
| | es of exposure | : inhalation (due | st/mist/fume) |
| | et Organs | : Lungs | |
| Asses | ssment | | luce significant health effects in animals at cor 0.02 mg/l/6h/d or less. |
| Repe | ated dose toxicity | | |
| Com | oonents: | | |
| Distil | lates (petroleum), h | ydrotreated light nap | hthenic: |
| Speci | | : Rabbit | |
| NOAE | | : 1,000 mg/kg | |
| | cation Route | : Skin contact | |
| Expos | sure time od | : 4 Weeks : OECD Test G | uideline 410 |
| Сорр | er metal powder: | | |
| Speci | | : Rat | |
| NOAE | EL | : >= 2 mg/m ³ | |
| Applic | cation Route sure time | : inhalation (due | st/mist/fume) |
| Expos | sure time | : 28 Days | |
| Calci | um oxide: | | |
| Speci | es | : Rat | |
| NOAE | EL | : >= 0.399 mg/l | |
| | cation Route | : inhalation (due | st/mist/fume) |
| Expos | sure time | : 90 Days : OECD Test G | udalina 412 |
| | | . OECD Test G | lideline 413 |
| Dolor | | | |
| Speci | | : Mouse | |
| NOAE | | : 1,300 mg/kg | |
| Applic | cation Route sure time | : Ingestion : 28 Days | |
| Rema | arks | | from similar materials |
| | | . Bassa on aat | |



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|-----------------------|---|---|--|--|--|--|
| Spec LOAE Appli | Quartz: Species LOAEL Application Route Remarks | | | nist/fume) (s) are inextricably bound in the product and contribute to a dust inhalation hazard. | | |
| Not c | Aspiration toxicity Not classified based on available information. | | | | | |
| | 12. ECOLOGICAL INF | | | | | |
| <u>Prod</u> Toxic | uct: ity to fish | : | Exposure time: 9 Method: OECD T | es promelas (fathead minnow)): 10,250 mg/l 6 h est Guideline 203 on data from similar materials | | |
| | ity to daphnia and other tic invertebrates | : | Exposure time: 9 Method: OECD T Remarks: Based | nagna (Water flea)): 15,470 mg/l 6 h est Guideline 202 on data from similar materials nagna (Water flea)): 30,940 mg/l | | |
| | | | Exposure time: 4 Method: OECD T | | | |
| Toxic plants | ity to algae/aquatic S | : | mg/l Exposure time: 9 Method: OECD T | um capricornutum (green algae)): 70,100 6 h est Guideline 201 on data from similar materials | | |
| | | | mg/l Exposure time: 9 Method: OECD T | rum capricornutum (green algae)): 60,000 6 h rest Guideline 201 on data from similar materials | | |
| 11 | ponents: | | | | | |
| 4.4. | lates (petroleum), hyd ity to fish | | LL50 (Pimephale Exposure time: 9 | s promelas (fathead minnow)): > 100 mg/l | | |
| Tovio | ity to dophnic and other | | ELEO (Dophoio m | $(M_{a}) = 10,000$ mg/l | | |



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|---------------------|--|---|--|---|--|--|
| Toxicit plants | Toxicity to algae/aquatic plants | | NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction | | | |
| aquati | c invertebrates (Chron- | : | NOEC (Daphnia r Exposure time: 21 | nagna (Water flea)): 10 mg/l d | | |
| ic toxic Toxicit | city) ty to microorganisms | : | NOEC (Photobacterium phosphoreum): > 2.17 mg/l Exposure time: 4 d | | | |
| Graph | ito. | | | | | |
| | ty to fish | : | LL50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 | | | |
| | ty to daphnia and other c invertebrates | : | EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 | | | |
| Toxicit plants | Toxicity to algae/aquatic plants | | mg/l Exposure time: 72 | Vater Accommodated Fraction | | |
| | | | 100 mg/l Exposure time: 72 | Vater Accommodated Fraction | | |
| Toxicit | ty to microorganisms | : | EC50: > 1,012.5 r Exposure time: 3 Method: OECD Te | h | | |
| | er metal powder: | | | | | |
| | ty to fish | : | LC50: > 10 - 100 Exposure time: 96 | | | |
| Toxicit icity) | ty to fish (Chronic tox- | : | NOEC: > 1 - 10 µ | g/I | | |
| Talc: Toxicit | Talc: Toxicity to fish | | LC50 (Brachydani Exposure time: 24 | io rerio (zebrafish)): > 100,000 mg/l ŀ h | | |
| | ım oxide: | | | | | |
| | Calcium oxide: Toxicity to fish | | LC50 (Oncorhync Exposure time: 96 Method: OECD Te | | | |



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|---|---|---|--|--|--|--|
| II | | | Remarks: Based | on data from similar materials | | |
| Toxicity to daphnia and other aquatic invertebrates | | : | Exposure time: 96 Method: OECD T | | | |
| Toxicity to algae/aquatic plants | | : | ErC50 (Pseudokirchneriella subcapitata (green algae) mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials | | | |
| | | | mg/l Exposure time: 72 Method: OECD T | | | |
| | ty to daphnia and other ic invertebrates (Chron- city) | : | Exposure time: 14 | crangon (shrimp)): > 1 mg/l 4 d on data from similar materials | | |
| Toxici | ty to microorganisms | : | EC50: > 100 mg/l Exposure time: 3 Method: OECD T Remarks: Based | h | | |
| Dolor | nite: | | | | | |
| Toxici | ty to fish | : | Exposure time: 96 Method: OECD T Remarks: No toxi | | | |
| | ty to daphnia and other ic invertebrates | : | Exposure time: 48 Method: OECD T Remarks: No toxi | nagna (Water flea)): > 16.6 mg/l 3 h est Guideline 202 city at the limit of solubility. om similar materials | | |
| Toxici plants | ty to algae/aquatic | : | Exposure time: 72 Method: OECD T | | | |
| Quart | z: | | | | | |
| | oxicology Assessment | | | | | |
| Acute | aquatic toxicity | : | No toxicity at the | limit of solubility. | | |
| Chron | ic aquatic toxicity | : | No toxicity at the | limit of solubility. | | |



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|-----------------|-------------------------------|---------------------------------|---|--|--|--|--|--|
| Pers | Persistence and degradability | | | | | | | |
| Prod | uct: | | | | | | | |
| Biode | egradability | • | : Result: Readily biodegradable. Remarks: Based on data from similar materials | | | | | |
| <u>Com</u> | ponents: | | | | | | | |
| Disti | llates (petroleum), h | ydrotreated light nap | hthenic: | | | | | |
| Biode | egradability | Biodegradation Exposure time | | | | | | |
| Bioa | ccumulative potentia | al | | | | | | |
| No da | ata available | | | | | | | |
| Mobi | lity in soil | | | | | | | |
| No da | ata available | | | | | | | |
| Othe | r adverse effects | | | | | | | |
| No da | ata available | | | | | | | |
| SECTION | 13. DISPOSAL CON | SIDERATIONS | | | | | | |
| Disp | osal methods | | | | | | | |
| - | e from residues | : Dispose of in a | : Dispose of in accordance with local regulations. | | | | | |

| Waste from residues : Contaminated packaging : | Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. |
|---|--|
|---|--|

SECTION 14. TRANSPORT INFORMATION

International Regulations

| UN number | : UN 3077 |
|----------------------|--|
| Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| | (Copper metal powder, Antimony, dialkyl dithiocarbamate) |
| Class | : 9 |
| Packing group | : III |
| Labels | : 9 |
| IATA-DGR | |
| UN/ID No. | : UN 3077 |
| Proper shipping name | : Environmentally hazardous substance, solid, n.o.s. (Copper metal powder, Antimony, dialkyl dithiocarbamate) |
| Class | : 9 |
| | |



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|--|--|-----------------------------|------------------------------------|---|
| Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- | | : | III Miscellaneous 956 956 | |
| • | ger aircraft) Environmentally hazardous | | yes | |
| UN nu | IMDG-Code UN number Proper shipping name | | N.O.S. | ALLY HAZARDOUS SUBSTANCE, SOLID, wder, Antimony, dialkyl dithiocarbamate) |
| Labels EmS (| Class Packing group Labels EmS Code Marine pollutant | | 9 III 9 F-A, S-F yes | |
| Trans | port in bulk according | l to | Annex II of MARP | OL 73/78 and the IBC Code |

Not applicable for product as supplied.

Domestic regulation

| 49 CFR | |
|----------------------|--|
| UN/ID/NA number | UN 3077 |
| Proper shipping name | Environmentally hazardous substance, solid, n.o.s. (Copper metal powder, Antimony, dialkyl dithiocarbamate) |
| Class | 9 |
| Packing group | |
| Labels | CLASS 9 |
| ERG Code | 171 |
| Marine pollutant | yes(Copper metal powder, Antimony, dialkyl dithiocarbamate) |
| Remarks | Above applies only to containers over 119 gallons or 450 liters. |

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ | Calculated product RQ |
|---------------------|-----------|--------------|-----------------------|
| | | (lbs) | (lbs) |
| Copper metal powder | 7440-50-8 | 5000 | 46992 |

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation

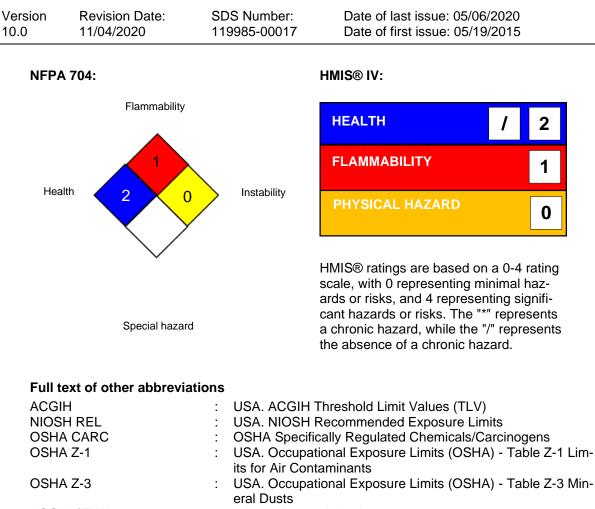


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| SARA 313 | | : | : The following components are subject to reporting l established by SARA Title III, Section 313: | | |
| | | | Copper metal powder | 7440-50-8 | >= 10 - < 20 % |
| US S | tate Regulations | | | | |
| Penn | sylvania Right To Ki | now | | | |
| | Distillates (petrol | leum), nixed e | | t naphthenic loic acid, isovaleric | 64742-53-6 68130-51-8 |
| | Graphite Copper metal po | | | | 7782-42-5 7440-50-8 |
| | Calcium(2+) 12-l Calcium oxide Quartz | | | | |
| WAR | | | | | r, which is/are known to v.P65Warnings.ca.gov. |
| Califo | Distillates (petrol Graphite Copper metal po Talc Calcium oxide | leum), | bstances hydrotreated ligh | t naphthenic | 64742-53-6 7782-42-5 7440-50-8 14807-96-6 1305-78-8 |
| Califo | ornia Permissible Ex | posu | e Limits for Che | mical Contaminant | S |
| | | leum), | hydrotreated ligh | | 64742-53-6 7782-42-5 7440-50-8 14807-96-6 1305-78-8 14808-60-7 |
| Califo | ornia Regulated Card Quartz | cinoge | ens | | 14808-60-7 |
| | | oduot | are reported in | the following inven | |
| DSL | ngredients of this pr | : | - | of this product are or | |
| TSCA | A | : | | | uct are either listed on the with a TSCA Inventory |
| AICS | | : | All ingredients li | sted or exempt. | |

SECTION 16. OTHER INFORMATION

Further information





| A | : | 8-hour, | time-weighted | average |
|---|---|---------|---------------|---------|

| ACGIH / TWA | : | 8-hour, time-weighted average |
|---|---|--|
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST | : | STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday |
| OSHA CARC / PEL OSHA Z-1 / TWA OSHA Z-3 / TWA | : | Permissible exposure limit (PEL) 8-hour time weighted average 8-hour time weighted average |

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 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 Pre-



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vention 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; 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

| Sources of key data used to | : | Internal technical data, data from raw material SDSs, OECD |
|---|---|--|
| compile the Material Safety Data Sheet | | eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ |
| | | ·,, ·,································ |

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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