SAFETY DATA SHEET



1. Identification

| Product identifier | Electro Galvanized Carbon Steel |
|----------------------------------|--|
| Other means of identification | |
| SDS number | WS011 |
| Recommended use | Not available. |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/I | Distributor information |
| Manufacturer/Supplier | The Worthington Steel Company |
| Address | 200 Old Wilson Bridge Road |
| | Columbus, OH 43085 |
| | United States |
| Email: | steel@worthingtonindustries.com |
| Telephone Number: | 800-944-3733 |
| CHEMTREC - 24 HOURS: | Within US: 800-424-9300 International: +1 703-741-5970 |
| | (collect calls accepted) |

2. Hazard(s) identification

| Physical hazards | Not classified. |
|--|--|
| Health hazards | Not classified. |
| OSHA defined hazards | Not classified. |
| Label elements | |
| Hazard symbol | None. |
| Signal word | None. |
| Hazard statement | None. |
| Precautionary statement | |
| Prevention | Observe good industrial hygiene practices. |
| Response | Wash thoroughly after handling. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |
| Hazard(s) not otherwise classified (HNOC) | Molten material will produce thermal burns. |

3. Composition/information on ingredients

Substances

| Chemical name | Common name and synonyms | CAS number | % |
|---------------|-----------------------------|------------|--------|
| Iron | | 7439-89-6 | >90 |
| Manganese | | 7439-96-5 | 0-1.0 |
| Carbon | | 7440-44-0 | 0-0.6 |
| Chromium | | 7440-47-3 | 0-0.5 |
| Silicon | | 7440-21-3 | 0-0.4 |
| Nickel | | 7440-02-0 | 0-0.15 |
| Aluminium | | 7429-90-5 | 0-0.1 |

| Molybdenum | | 7439-98-7 | 0-0.1 |
|---|--|--|--|
| Titanium | | 7440-32-6 | 0-0.1 |
| Sulfur | | 7704-34-9 | 0-0.05 |
| Phosphorus | | 7723-14-0 | 0-0.04 |
| Boron | | 7440-42-8 | 0-0.02 |
| Vanadium | | 7440-62-2 | 0-0.02 |
| Lead | | 7439-92-1 | 0-0.01 |
| Metallic Coating | | | 0/ |
| Chemical name | | CAS number | % |
| Zinc | | 7440-66-6 | 0.05 - 0.5 |
| Composition comments | All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. | | |
| 4. First-aid measures | | | |
| nhalation | Contact with dust or fume: Immediately assistance. For those providing assista respiratory protection. Give supplemen ventilation with a mechanical device or | nce, avoid exposure to yourself or tal oxygen, if available. If breathing | others. Use adequat g has stopped, assist |
| Skin contact | Wash with soap and water. Get medical attention if irritation develops and persists. Thermal bur Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Seek medical attention severe cuts or abrasions. | | |
| Eye contact | Rinse immediately with plenty of water for at least 15 minutes. Remove any contact lenses. Ge medical attention if irritation develops or persists. | | |
| Ingestion | Contact with dust: Immediately rinse mouth and drink a cupful of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Only induce vomiting at the instruction of medical personnel. Get medical attention immediately. | | |
| Most important symptoms/effects, acute and | Dust and fumes may irritate eyes, skin and upper respiratory tract. Contact with molten material may cause thermal burns. | | |
| | | | ci with molien materi |
| delayed Indication of immediate medical attention and special | Treat symptomatically. Exposure may a be delayed. | aggravate pre-existing respiratory | |
| delayed ndication of immediate nedical attention and special reatment needed | | | |
| delayed Indication of immediate medical attention and special treatment needed General information | be delayed. | | |
| delayed ndication of immediate medical attention and special reatment needed General information 5. Fire-fighting measures | be delayed. | or in attendance. | |
| delayed ndication of immediate medical attention and special treatment needed General information 5. Fire-fighting measures Suitable extinguishing media Unsuitable extinguishing | be delayed. Show this safety data sheet to the doct | or in attendance. r dry powder. | |
| delayed Indication of immediate medical attention and special treatment needed General information 5. Fire-fighting measures Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from | be delayed. Show this safety data sheet to the doct Extinguish with foam, carbon dioxide of | or in attendance. r dry powder. guishing media. | |
| delayed Indication of immediate medical attention and special treatment needed General information 5. Fire-fighting measures Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the chemical Special protective equipment | be delayed. Show this safety data sheet to the doct Extinguish with foam, carbon dioxide of Do not use water or halogenated exting | or in attendance. r dry powder. guishing media. I oxides. | disorders. Symptoms |
| delayed Indication of immediate medical attention and special treatment needed General information 5. Fire-fighting measures Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the chemical Special protective equipment and precautions for firefighters Fire fighting equipment/instructions | be delayed. Show this safety data sheet to the doct Extinguish with foam, carbon dioxide of Do not use water or halogenated exting Fire or high temperatures create: Metal | or in attendance. r dry powder. guishing media. l oxides. d full protective clothing must be w | disorders. Symptoms |

6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Wear protective clothing as described in Section 8 of this SDS. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
|---|--|
| Methods and materials for containment and cleaning up | Pick up mechanically. For a dry material spill, use a HEPA (high efficiency particle air) vacuum to collect material and place in a sealable container for disposal. Avoid dust formation. Recover and recycle, if practical. Keep out of water supplies and sewers. |

Prevent further leakage or spillage if safe to do so. Do not contaminate water. If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

7. Handling and storage

| Precautions for safe handling | Wear appropriate personal protective equipment (See Section 8). Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and fumes. Avoid contact with skin and eyes. Avoid contact with sharp edges and hot surfaces. Do not get this material on clothing. Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Follow the recommendations in ANSI Z49.1, Safety in welding and cutting (ANSI=American National Standard Institute). Steel products are massive and care must be taken to prevent them from falling, rolling or tipping on objects in their path. |
|---|--|
| Conditions for safe storage, including any incompatibilities | Store away from incompatible materials. |

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

| Components | ponents Type Value | | |
|-----------------------------------|-----------------------------|------------|----------------------|
| Lead (CAS 7439-92-1) | TWA | 0.05 mg/m3 | |
| US. OSHA Table Z-1 Limits for Air | Contaminants (29 CFR 1910.1 | 000) | |
| Components | Туре | Value | Form |
| Aluminium (CAS 7429-90-5) | PEL | 5 mg/m3 | Respirable dust. |
| | | 15 mg/m3 | Total dust. |
| Chromium (CAS 7440-47-3) | PEL | 1 mg/m3 | |
| Manganese (CAS 7439-96-5) | Ceiling | 5 mg/m3 | Fume. |
| Molybdenum (CAS 7439-98-7) | PEL | 15 mg/m3 | Total dust. |
| Nickel (CAS 7440-02-0) | PEL | 1 mg/m3 | |
| Phosphorus (CAS 7723-14-0) | PEL | 0.1 mg/m3 | |
| Silicon (CAS 7440-21-3) | PEL | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| US. OSHA Table Z-3 (29 CFR 1910. | 1000) | | |
| Components | Туре | Value | Form |
| Carbon (CAS 7440-44-0) | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| US. ACGIH Threshold Limit Values | | | |
| Components | Туре | Value | Form |
| Aluminium (CAS 7429-90-5) | TWA | 1 mg/m3 | Respirable fraction. |
| Carbon (CAS 7440-44-0) | TWA | 2 mg/m3 | Respirable fraction. |
| Chromium (CAS 7440-47-3) | TWA | 0.5 mg/m3 | |
| Lead (CAS 7439-92-1) | TWA | 0.05 mg/m3 | |
| Nickel (CAS 7440-02-0) | TWA | 1.5 mg/m3 | Inhalable fraction. |
| Phosphorus (CAS 7723-14-0) | TWA | 0.1 mg/m3 | |
| US. NIOSH: Pocket Guide to Chem | ical Hazards | | |
| Components | Туре | Value | Form |
| Aluminium (CAS 7429-90-5) | TWA | 5 mg/m3 | Respirable. |
| | | 5 mg/m3 | Welding fume or |
| | | | pyrophoric powder. |
| | | 10 mg/m3 | Total |
| Carbon (CAS 7440-44-0) | TWA | 2.5 mg/m3 | Respirable. |
| Chromium (CAS 7440-47-3) | TWA | 0.5 mg/m3 | |
| Lead (CAS 7439-92-1) | TWA | 0.05 mg/m3 | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Туре | Value | Form |
|-------------------------------|------|-------------|-------------|
| Manganese (CAS 7439-96-5) | STEL | 3 mg/m3 | Fume. |
| , | TWA | 1 mg/m3 | Fume. |
| Nickel (CAS 7440-02-0) | TWA | 0.015 mg/m3 | |
| Phosphorus (CAS 7723-14-0) | TWA | 0.1 mg/m3 | |
| Silicon (CÁS 7440-21-3) | TWA | 5 mg/m3 | Respirable. |
| | | 10 mg/m3 | Total |
| Vanadium (CAS 7440-62-2) | STEL | 3 mg/m3 | |
| | TWA | 1 mg/m3 | |

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|-----------------------------------|---|------------------------------|------------------|--|
| Lead (CAS 7439-92-1) | 300 µg/l | Lead | Blood | * |
| * - For sampling details, pl | ease see the source | e document. | | |
| Exposure guidelines | No exposure s | standards allocated. | | |
| Appropriate engineering controls | Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Keep melting/soldering temperatures as low as possible to minimize the generation of fume. Shower, hand and eye washing facilities near the workplace are recommended. | | | |
| Individual protection measur | es, such as perso | nal protective equipme | ent | |
| Eye/face protection | Wear safety g material. | asses with side shields | (or goggles). W | ear a face shield when working with molten |
| Skin protection | | | | |
| Hand protection | Wear protectiv | e gloves (i.e. latex, nitril | e, neoprene). | |
| Other | Chemical resis | stant clothing is recomm | ended. | |
| Respiratory protection | Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a supplied respirator may be required. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. | | | |
| Thermal hazards | Heat resistant | insulated gloves and clo | othing are recon | nmended when working with molten material. |
| General hygiene considerations | and before ear | | | ch as washing after handling the material / wash work clothing and protective |

9. Physical and chemical properties

| Appearance | Shiny metallic solid. |
|---|---|
| Physical state | Solid. |
| Form | Solid. |
| Color | Not available. |
| Odor | Odorless. |
| Odor threshold | Not available. |
| рН | Not applicable. |
| Melting point/freezing point | 2400 - 2800 °F (1315.56 - 1537.78 °C) Base metal 800 - 900 °F (426.67 - 482.22 °C) Coating |
| Initial boiling point and boiling range | Not applicable. |
| Flash point | Not applicable. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or exp | losive limits |
| Flammability limit - lower (%) | Not applicable. |

| Flammability limit - upper (%) | Not applicable. |
|--|--|
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not applicable. |
| Vapor density | Not applicable. |
| Relative density | 7.5 - 8.5 |
| Solubility(ies) | |
| Solubility (water) | Not soluble in water. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not applicable. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Percent volatile | 0 |
| 10. Stability and reactivity | |
| Reactivity | The product is non-reactive under normal conditions of use, storage and transport. |

| Reactivity | The product is non-reactive under normal conditions of use, storage and transport. |
|---------------------------------------|--|
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Contact with incompatible materials. Avoid molten metal contact with water. |
| Incompatible materials | Acids. Bases. Strong oxidizing agents. |
| Hazardous decomposition products | Toxic metal oxides are emitted when heated above the melting point. |

11. Toxicological information

Information on likely routes of exposure

| Inhalation | Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the mucous membranes and respiratory tract. Lung damage and possible pulmonary edema can result from dust exposure. Inhalation of fumes may cause a flu-like illness called metal fume fever. |
|--|---|
| Skin contact | Dust may irritate skin. Contact with molten material may cause thermal burns. |
| Eye contact | Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye. |
| Ingestion | Ingestion of dusts generated during working operations may cause nausea and vomiting. |
| Symptoms related to the physical, chemical and toxicological characteristics | Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. Contact with molten material may cause thermal burns. |
| Information on toxicological | effects |
| Acute toxicity | When heated, the vapors/fumes given off may cause respiratory tract irritation. High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever. |
| - | |

| Components | Species | Test Results | |
|---------------------------|---------|-----------------------|--|
| Aluminium (CAS 7429-90-5) | | | |
| Acute | | | |
| Inhalation | | | |
| LC50 | Rat | > 0.888 mg/l, 4 Hours | |
| Oral | | | |
| LD50 | Rat | 9 g/kg | |

| Components | Species | Test Results |
|-----------------------------------|-------------------------------|--|
| Boron (CAS 7440-42-8) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | 650 mg/kg |
| Carbon (CAS 7440-44-0) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | > 2000 mg/m3, 4 hours |
| Iron (CAS 7439-89-6) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | > 100 mg/m3, 6 hours |
| LD50 | Rat | > 5 mg/kg |
| Oral | | |
| LD50 | Rat | 98.6 g/kg |
| Manganese (CAS 7439-96-5) | | |
| Acute | | |
| Inhalation | | |
| LC50/LC90 | Rat | > 1500 mg/kg |
| Oral | | |
| LD50 | Rat | 9000 mg/kg |
| | | Sooo mg/kg |
| Nickel (CAS 7440-02-0) | | |
| Acute | | |
| Oral LD50 | Rat | > 9000 mg/kg |
| | Rai | > 9000 mg/kg |
| Silicon (CAS 7440-21-3) | | |
| Acute | | |
| Oral | Det | |
| LD50 | Rat | 3150 mg/kg |
| Sulfur (CAS 7704-34-9) | | |
| Acute | | |
| Dermal | - | |
| LD50 | Rat | > 2000 mg/kg, 24 Hours |
| Inhalation | | |
| LC50 | Rat | > 5.43 g/m3, 4 Hours |
| Oral | | |
| LD50 | Rat | > 2200 mg/kg |
| Metallic Coating | Species | Test Results |
| Zinc (CAS 7440-66-6) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | > 5410 mg/m3 |
| Skin corrosion/irritation | Dust may irritate skin. | |
| Serious eye damage/eye irritation | - | al action may form dust and fumes which may be irritating to |
| Respiratory or skin sensitization | on | |
| Respiratory sensitization | No sensitizing effects known. | |
| Skin sensitization | | or fumes may cause an allergic skin reaction in sensitized |
| | | |

Suspected of causing cancer. The International Agency for Research on Cancer (IARC). The Carcinogenicity National Toxicology Program (NTP) and OSHA do not list steel products as carcinogens. Steel products contain alloying elements and/or residual elements that are suspected or confirmed human carcinogens (e.g. chromium, nickel). IARC identifies welding fumes as a group 2B carcinogen, a mixture that is possibly carcinogenic to humans. Welding fumes are difficult to classify because the composition and quantity are dependent upon the alloy being welded, electrodes used, and process. IARC Monographs. Overall Evaluation of Carcinogenicity Chromium (CAS 7440-47-3) 3 Not classifiable as to carcinogenicity to humans. Lead (CAS 7439-92-1) 2B Possibly carcinogenic to humans. Nickel (CAS 7440-02-0) 2B Possibly carcinogenic to humans. **NTP Report on Carcinogens** Lead (CAS 7439-92-1) Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. Nickel (CAS 7440-02-0) OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Suspected of damaging fertility or the unborn child. **Reproductive toxicity** Specific target organ toxicity -May cause irritation of respiratory tract. single exposure Specific target organ toxicity -Causes damage to organs () through prolonged or repeated exposure. repeated exposure Not relevant, due to the form of the product. Aspiration hazard **Chronic effects** Prolonged and repeated overexposure to dust can lead to benign pneumoconiosis. Chronic exposure to breathing low levels of manganese dust or fume over a long period of time can result in "manganism," a disease of the central nervous system similar to Parkinson's Disease, gait impairment, muscle spasms and behavioral changes. Steel products may be coated with oil based products to prevent rust. Rust preventive oils are **Further information** generally applied at customer request and usually contains severely hydrotreated light and heavy naphthenic oils. Prolonged contact with rust preventive oil may cause dermatitis.

12. Ecological information

| Ecotoxicity | Alloys in | massive forms present a limited hazard for | r the environment. |
|-------------------------------|------------|---|------------------------------|
| Components | | Species | Test Results |
| Phosphorus (CAS 7723-14-0 | D) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 0.025 - 0.037 mg/l, 48 hours |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 0.002 - 0.006 mg/l, 96 hours |
| | | | 0.001 - 0.004 mg/l, 96 hours |
| Metallic Coating | | Species | Test Results |
| Zinc (CAS 7440-66-6) | | | |
| Aquatic | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 0.24 mg/l, 96 hours |
| Persistence and degradability | The prod | uct is not biodegradable. | |
| lioaccumulative potential | No data a | available. | |
| lobility in soil | Alloys in | massive forms are not mobile in the enviro | nment. |
| other adverse effects | None exp | pected. | |
| 13. Disposal consideration | ons | | |
| Disposal instructions | Dispose i | n accordance with all applicable regulatior | ns. |
| ocal disposal regulations | Dispose of | of in accordance with local regulations. | |
| lazardous waste code | Not regul | hate | |

| Local disposal regulations | Dispose of in accordance with local regulations. |
|--|---|
| Hazardous waste code | Not regulated. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Scrapped material should be sent for refining to recover precious metal content. Solid metal and alloys in the form of particles may be reactive. Its hazardous characteristics, including fire and explosion, should be determined prior to disposal. |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

| for nogulatory informat | | | | |
|---|--|--|--|--|
| US federal regulations | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard | | | |
| | Communication Standard, 29 CFR 1910.1200. | | | |
| | All components are on the U.S. EPA TSCA Inventory List. | | | |
| TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) | | | | |

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

| Lead (CAS 7439-92-1) | Reproductive toxicity Central nervous system Kidney Blood Acute toxicity |
|--|--|
| CERCLA Hazardous Substance List (40 CFR 302.4) | |
| Chromium (CAS 7440-47-3) | LISTED |
| Lead (CAS 7439-92-1) | LISTED |
| Manganese (CAS 7439-96-5) | LISTED |
| Nickel (CAS 7440-02-0) | LISTED |
| Phosphorus (CAS 7723-14-0) | LISTED |
| Zinc (CAS 7440-66-6) | LISTED |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| ••••••••••••••••••••••••••••••••••••••• | |
|---|------------------------|
| Hazard categories | Immediate Hazard - Yes |
| | Delayed Hazard - Yes |
| | Fire Hazard - No |
| | Pressure Hazard - No |
| | Reactivity Hazard - No |
| | |

SARA 302 Extremely hazardous substance

| Chemical name | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds) |
|---------------------------------|----------------------|------------------------------------|--|--|--|
| Phosphorus | 7723-14-0 | 1 | 100 | | |
| SARA 311/312 Hazaro chemical | dous Yes | | | | |
| SARA 313 (TRI report | ting) | | | | |
| Chemical name | | | CAS number | % by wt. | |
| Manganese | | | 7439-96-5 | 0-1.0 | |
| Nickel | | | 7440-02-0 | 0-0.15 | |
| Lead | | | 7439-92-1 | 0-0.01 | |
| er federal regulations | | | | | |
| Clean Air Act (CAA) | Section 112 Hazard | ous Air Pollutar | nts (HAPs) List | | |
| Chromium (CAS 7 | 7440-47-3) | | | | |
| Lead (CAS 7439-9 | , | | | | |
| Manganese (CAS | 7439-96-5) | | | | |
| Nickel (CAS 7440 | -02-0) | | | | |
| Phosphorus (CAS | 7723-14-0) | | | | |
| Clean Air Act (CAA) | Section 112(r) Accie | dental Release | Prevention (40 CFR 6 | 8.130) | |
| Not regulated. | | | | | |

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Aluminium (CAS 7429-90-5) Chromium (CAS 7440-47-3) Lead (CAS 7439-92-1) Manganese (CAS 7439-96-5) Molybdenum (CAS 7439-98-7) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0) Silicon (CAS 7440-21-3) Sulfur (CAS 7704-34-9) Vanadium (CAS 7440-62-2) Zinc (CAS 7440-66-6) US. New Jersey Worker and Community Right-to-Know Act Aluminium (CAS 7429-90-5) Boron (CAS 7440-42-8) Carbon (CAS 7440-44-0) Chromium (CAS 7440-47-3) Lead (CAS 7439-92-1) Manganese (CAS 7439-96-5) Molybdenum (CAS 7439-98-7) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0) Silicon (CAS 7440-21-3) Sulfur (CAS 7704-34-9) Titanium (CAS 7440-32-6) Vanadium (CAS 7440-62-2) Zinc (CAS 7440-66-6) US. Pennsylvania Worker and Community Right-to-Know Law Aluminium (CAS 7429-90-5) Chromium (CAS 7440-47-3) Lead (CAS 7439-92-1) Manganese (CAS 7439-96-5)

Molybdenum (CAS 7439-98-7) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0) Silicon (CAS 7440-21-3) Sulfur (CAS 7704-34-9) Vanadium (CAS 7440-62-2) Zinc (CAS 7440-66-6)

US. Rhode Island RTK

Aluminium (CAS 7429-90-5) Chromium (CAS 7440-47-3) Lead (CAS 7439-92-1) Manganese (CAS 7439-96-5) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0) Vanadium (CAS 7440-62-2) Zinc (CAS 7440-66-6)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0)

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |

Electro Galvanized Carbon Steel

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| Issue date | 01-June-2015 |
|---------------------|--|
| Revision date | - |
| Version # | 01 |
| Further information | HMIS® is a registered trade and service mark of the NPCA. |
| HMIS® ratings | Health: 1* Flammability: 0 Physical hazard: 0 |
| NFPA ratings | |
| References | ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices |
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