SAFETY DATA SHEET

This SDS is prepared in accordance with OSHA 29 CFR 1910.1200



| | | | | | | | CATTO | | |
|--|--|--|---------------------|---------------------------|---------------|------------------|-----------------------------------|--|--|
| Section 1. Identification | | | | | | | | | |
| PRODUCT IDENTIFIER PRO PERFORMANCE METAL TREATMENT | | | | | Code Mixture | | | | |
| | | | | | CAS# | Mixture | | | |
| RECOMMENDED USE | SURFACE COATING PRODUCT | | | | | | | | |
| | For Industrial use only. Not recommended for N | Medical Device or | · Drug use | | In Case of E | mergency | Chemtel | | |
| MANUFACTURER / SUPPLIER | e9 TREATMENTS | iculcal Device Of | Drug use. | | (US/Canada | | 1-800-255-3924 | | |
| MANO ACTORER / SOFFLIER | | | | | (Internation | | | | |
| | 159 Enterprise Parkway, Boerne, TX - 78006 | P: 210-742-1051 | | | | iai) | +01-813-248-0585 | | |
| | 1.210-742-1031 | | | | | | | | |
| Section 2. Information on Hazardo | nus Ingredients | | | | | | | | |
| HAZARD CLASSIFICATION | NOT CLASSIFIED AS HAZARDOUS ACCORDING T | O OSHA HAZARI | D COMMUNICATIO | IN STANDARD 20 CER 1 | 1910 1200 | | | | |
| LABEL ELEMENTS | | NOT APPLICABLE | | NI STANDAND, ES CIN I | 1310:1200. | | | | |
| EADLE ELEMENTS | | NOT APPLICABLE | | | | | | | |
| | | NOT APPLICABLE | | | | | | | |
| HAZARD NOT OTHERWISE CLASSIFIED | NONE | NOT ATTECABLE | - | | | | | | |
| | | 6 | | | -1 /+:1/ | :-++:1 | | | |
| PRECAUTIONARY STATEMENTS | Store in a well-ventilated place. Keep Cool. Disp | ose of contents/ | container in accord | iance with local/regiona | ai /nationai/ | international re | guiations. | | |
| Section 3. Composition / Informati | on on ingredients | | | | | | | | |
| DESCRIPTION | LIQUID | | | | | | | | |
| INGREDIENT | C.A.S. NO. | % BY WT | | | | | | | |
| Fluoro Compound | Trade Secret* | < 5% | | | | | | | |
| METHYL NONAFLUOROBUTYL ETHER | 163702-07-6 | 20-95% | | | | | | | |
| METHYL NONAFLUOROISOBUTYL ETHER | 163702-08-7 | 20-95% | | | | | | | |
| * The specific chemical identity and/or percent | age of this material has been withheld as a trade secre | et | • | | | | | | |
| | | | | | | | | | |
| Section 4. First Aid Measures | | | | | | | | | |
| INHALATION | Supply fresh air; consult doctor in case of comp | laints. | | | | | | | |
| SKIN CONTACT | Immediately wash with water and soap and rins | | symptoms develop, | , seek medical help. | | | | | |
| EYE CONTACT | | Rinse opened eye for several minutes under running water. Remove contacts if easy to do. If symptoms persist, seek medical help. | | | | | | | |
| INGESTION | Do not induce vomiting; call for medical help in | Do not induce vomiting; call for medical help immediately. Rinse mouth with water. | | | | | | | |
| MOST IMPORTANT SYMPTONS AND | See Section 11.1 Information on Toxicological e | | | | | | | | |
| EFFECTS | | | | | | | | | |
| INDICATION OF ANY IMMEDIATE | No further relevant information available. | | | | | | | | |
| MEDICAL ATTENTION AND SPECIAL | | | | | | | | | |
| TREATMENT | | | | | | | | | |
| Section 5. Fire Fighting Measures | | | | | | | | | |
| SUITABLE/UNSUITABLE EXTINGUISHING | Non-combustible. Use fire extinguishing method | ds suitable to sur | rounding condition | ns. | | | | | |
| MEDIA Foam. | | | | | | | | | |
| | Fire-extinguishing powder. | Fire-extinguishing powder. | | | | | | | |
| | Carbon dioxide. | | | | | | | | |
| SPECIFIC HAZARDS (IE HAZARDOUS | Formation of toxic gases is possible during heat | ing or in case of t | fire. | | | | | | |
| COMBUSTION PRODUCTS) | Hydrogen flouride (HF) | | | | | | | | |
| | Carbon monoxide | | | | | | | | |
| | Carbon dioxide | | | | | | | | |
| SPECIAL PROTECTIVE ACTIONS FOR FIRE | When fire fighting conditoins are severe and to | | | | | | | | |
| FIGHTERS | positive pressure or pressure demand breathin | ng apparatus, bur | nker coat and pants | s, bands around arms, w | vaist and leg | s, face mask, an | d protective covering for exposed | | |
| Continue C. Annial cut al Bullium 25 | areas of the head. | | | | | | | | |
| Section 6. Accidental Release Mea | | | | | | | | | |
| PERSON PRECAUTIONS, PPE | Ensure adequate ventilation. Wear protective e | quipment. Keep i | unprotected persor | ns away. Keep away | | | | | |
| | from ignition sources. | | | | | | | | |
| ENVIRONMENTAL PRECAUTIONS | · · · · · · · · · · · · · · · · · · · | ot allow to enter sewers/ surface or ground water. | | | | | | | |
| | Prevent from spreading (e.g. by damming-in or | | | | | | | | |
| METHODS & MATERIALS OF CONTAINESS. | Inform respective authorities in case of seepage | | | | | | - | | |
| METHODS & MATERIALS OF CONTAINMENT & CLEANING | Contain spill. Working from around the edges o | | | | | | | | |
| - | inorganic absorbent material. Mix in sufficient a Clean up residue with an appropriate organic so | | | • | | | | | |
| | Greati up residue with all appropriate organic sc | iveni. Jean the tt | Jinamer. Jenu 101 I | ccovery or disposal III S | ישינמטול ולכל | pracies. | | | |

Section 7. Handling and Storage RECAUTIONS FOR SAFE HANDLING Ensure good ventilation/exhaustion at the workplace. Do not breathe thermal decomposition products. Avoid skin contact with hot material. For industrial or professional use only. Store work clothes separately from other clothing, food and tobacco products. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products. Keep away from heat and direct sunlight. CONDITIONS FOR SAFE STORAGE Store in cool, dry conditions. Keep container tightly sealed. Only use containers compatible with the product. Store only in unopened original receptacles. Do not store together with oxidising and acidic materials as well as heavy metal compunds. Section 8. Exposure Controls/Personal Protection CONTROL PEL/TWA/STEL AGENCY CAS COMPONENT PARAMETER METHYL NONAFLUOROBUTYL ETHER AIHA 163702-07-6 TWA 750 ppm METHYL NONAFLUOROISOBUTYL ETHER TWA 750 ppm AIHA 163702-08-7 VENTILATION /ENGINEERING CONTROLS Provide appropriate local exhaust when product is heated. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, SKIN PROTECTION Wear protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Consider penetration times, rates of diffusion and the degradation of material when selecting gloves MATERIAL OF GLOVES Reinforced nitrile rubber, NBR Suitable gloves not only depend on material, but also on manufacturing quality. Gloves should be checked prior to use for good manufacturing quality. Penetration time of glove material The exact breakthrough time of the glove material has to be found out by the manufacturer of the protective glove and has to be observed. RESPIRATORY PROTECTION Use suitable respiratory protective device in case of insufficient ventilation. THERMAL HAZARDS Wear heat insulating gloves when handling hot material to prevent thermal burns. EYE PROTECTION Wear safety glasses with side shields. CLOTHING Select and use body protection to prevent contact when using the product in a manner that presents a higher potential for exposure. The following are recommended: Lab coat, Apron - polymer laminate. Section 9. Physical and Chemical Properties Physical State and Appearance Odor Ether-like Not determined Odor threshold Not applicable Melting/Freezing Point -135º C Initial boiling point and boiling range 61° C Flash point None Specific Gravity 1.5 [Ref Std: WATER=1] vaporation rate 49 [Ref Std: BUOAC=1] Flammability (solid, gas) None detected Upper/lower flammability or explosive limits: None detected Vapor pressure 202 mmHg [@ 25 ºC] Vapor density 8.6 [Ref Std: AIR=1] 1.5 g/ml Relative Density Solubility (in H₂O) < 12ppm 3.9 [Details: 30 °C] Partition coefficient: n-octanol/water 405 ºC [Details: (ASTM E659-84)] Auto-ignition Temperature Not Applicable Decomposition temperature 0.6 centipoise [@ 23 ºC] Viscosity

Percent Volatility

100%

| Section 10. Stability and Reactivit | v Data | | | | | | | | |
|--|--------------------------------------|--|--|----------------------------------|------------------|--|--|--|--|
| INCOMPATIBILITY WITH VARIOUS | , | | | | | | | | |
| SUBSTANCES | Avoid strong acids | Avoid strong acids and strong bases. | | | | | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS | | | | | | | | | |
| | | Perflourinated Acid Flourides. | | | | | | | |
| | At extreme conditi | At extreme conditions of heat toxic vapor, Gas, Particulate may be released. | | | | | | | |
| Section 11. Toxicological Informat | tion | | | | | | | | |
| 2012001517 | | <u>.</u> . 1 | 0 | . 7 | | | | | |
| COMPONENT | | Test | Control Parameter > 5000 mg/kg | | | | | | |
| METHYL NONAFLUOROBUTYL ETHER | | ral Rat LD 50 | _ | · - | | | | | |
| + | 1 | lation Rat LC50 ral Rat LD 50 | > 100, 000 pp > 5000 mg | | | | | | |
| METHYL NONAFLUOROISOBUTYL ETHER | | lation Rat LC50 | > 100, 000 pp | · - | | | | | |
| | IIIIIa | iation Rat LC50 | > 100, 000 pp | ліі 4п | | | | | |
| INHALATION | No health effects a | ire expected. | | | | | | | |
| SKIN CONTACT | | Contact with the skin during product use is not expected to result in significant irritation. | | | | | | | |
| EYE CONTACT | | May cause temporary irritation on eyes with a burning feeling, tearing, or redness. | | | | | | | |
| INGESTION | | No known health effects. | | | | | | | |
| ACUTE EFFECT ON HUMANS | | No known health effects. | | | | | | | |
| CHRONIC EFFECT ON HUMANS | | No known health effects. | | | | | | | |
| Section 12. Ecological Information | | | | | | | | | |
| ECOTOXICITY | | Test Organism | | Test Type | Result | | | | |
| 200100000 | LC50 Fathead Min | now, Pimephales promelas | 96 hou | urs Lethal Concentration 50% | > 7.9 mg/l | | | | |
| | | Selenastrum capricornutum | | urs Inhibitory Concentration 50% | > 8.9 mg/l | | | | |
| | EC50 Water flea, D | • | | urs Effect Concentration 50% | > 10 mg/l | | | | |
| Section 13. Disposal Consideration | | aprilla magna | 10 1100 | and Effect content ation 50% | . 10g/ | | | | |
| WASTE INFORMATION | | ed waste facility | | | | | | | |
| WASTE IN CHINATION | | Send to an approved waste facility. All wastes must be handled in accordance with local, state and federal regulations. | | | | | | | |
| | | Do not allow product to reach sewage system or any water course. | | | | | | | |
| Section 14. Transport Information | | set to reach seriage system or an | y water course. | | | | | | |
| | | U.S. DOT, IATA or IMO. | | | | | | | |
| Section 15. Other Regulatory Info | | | | | | | | | |
| occion 13. Other negalatory into | That ion and Tictog | 141113 | | | | | | | |
| US FEDERAL REGULATIONS | OSHA does not ha | OSHA does not have a formal Permissible Exposure Limit (PEL) for the 7100. | | | | | | | |
| | EPA Hazardous Wa | EPA Hazardous Waste Number (RCRA): Not regulated | | | | | | | |
| | | . , , | | | | | | | |
| CHEMICAL INVENTORIES | Not Determined | | | | | | | | |
| Section 16. Other Information | | | | | | | | | |
| | | | | | | | | | |
| NFPA Hazard Classification | Health: 0 | Flammability: 0 | Reactivity: 0 | Special Hazard | ls: None | | | | |
| | workplace. These intended for use in | Hazardous Material Identification System (HMIS®) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA). | | | | | | | |
| HMIS Hazard Classification | Health: 1 | Flammability: 0 | Reactivity: 0 | Protection: X | See PPE section. | | | | |
| | workplace. These intended for use in | Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA). | | | | | | | |
| Notice to Reader | | | | | | | | | |
| To the best of our knowledge, the information | contained herein is accure | ate However neither the above r | named sunnlier nor any of its subsidio | aries assumes anv | | | | | |
| liability whatsoever for the accuracy or comple | | | iamea supplier nor any oj its substata | nies assumes any | | | | | |
| Final determination of suitability of any materi | | | resent unknown hazards and should b | he used with | | | | | |
| | | y oj trie user. Ali muteriuis muy pi | | oc asca with | | | | | |

caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.