

Part No. 1041D (Aerosol)

Print Date: 3/1/2018 Revision Date: 3/1/2018 Supersedes Date: 2/17/2015 Issue Date: 2/24/2003 Version: 8.0 (EN)-US Page: 1/10

Metal Tap #5

| according to Federal Register / | / Vol. 77, No. 58 / Monday, I | March 26, 2012 / Rules and Regulations |
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| SECTION 1 - IDENTIFIC | ATION | | |
|---|--|--|---|
| 1.1 Product Identifier | | | |
| Product Name | : Metal T | ap #5 | |
| Manufacturer Product Number | : 1041D | | |
| 1.2 Other Means of Id | entification | | |
| Other Identifiers | : Not Avc | iilable | |
| 1.3 Relevant Identified | d Uses of the Substance | or Mixture and Uses Advised Agair | ıst |
| Recommended Use | : Manua | l tapping and drilling fluid | |
| Restrictions on Use | : None la | lentified | |
| 1.4 Supplier Details | | | |
| | | Manufacturer Details | Supplier Details |
| Company Name | : Chem | -Pak Inc | Chem-Pak Inc |
| Address | | orning Way, Martinsburg, WV 25405 - | 242 Corning Way, Martinsburg, WV 25405 - United |
| Dhana Nuushan | | d States | States |
| Phone Number Fax Number | | 62-1880 62-9643 | 304-262-1880 304-262-9643 |
| Email | | @chem-pak.com | 504-202-9045 |
| Website | | //www.chem-pak.com | |
| 1.5 24 hr Emergency P | hana Numbar | | |
| 1.5 24 hr Emergency P Emergency Number | : 800-25 | 5-3024 | |
| Lineigency Number | . 800-23. | 5-3524 | |
| 2.1 Classification of th Flam. Aerosol 2 H223 | e Substance or Mixture Physical Hazards | Flammable aerosol Category 2 | |
| Press. Gas (Comp.) H280 | Physical Hazards | Gases under pressure Compressed | gas |
| Skin Irrit. 2 H315 | Health Hazards | Skin corrosion/irritation Category 2 | 2 |
| Eye Irrit. 2 H319 | Health Hazards | Serious eye damage/eye irritation (| Category 2 |
| Muta. 2 H341 | Health Hazards | Germ cell mutagenicity Category 2 | |
| Carc. 1b H350 | Health Hazards | Carcinogenicity Category 1B | |
| Lact. H362 | Health Hazards | Reproductive toxicity (Lact.) | |
| Stot Se 3 H336 | Health Hazards | Specific target organ toxicity (single | e exposure) Category 3 |
| Asp. Tox. 1 H304 | Health Hazards | Aspiration hazard Category 1 | |
| Aquatic Acute 1 H400 | Environmental Hazards | Hazardous to the aquatic environm | ent - Acute Hazard Category 1 |
| Aquatic Chronic 2 H411 | Environmental Hazards | Hazardous to the aquatic environm | ent - Chronic Hazard Category 2 |
| 2.2 Label Elements | | | |
| Hazard Pictograms | | | \land |
| | | HS02 GHS04 GHS07 | GHS08 GHS09 |
| Signal Word | Danger | | |
| Hazard Statements | H223 | : Flammable aerosol | |
| | H280 | : Contains gas under pressur | re; may explode if heated |
| | H304 | : May be fatal if swallowed a | and enters airways |
| | H315 | : Causes skin irritation | |
| | | | |



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| | | | | |

| | H319 | : | Causes serious eye irritation |
|--------------------------|----------------|---|--|
| | H336 | : | May cause drowsiness or dizziness |
| | H341 | : | Suspected of causing genetic defects |
| | H350 | : | May cause cancer |
| | H362 | : | May cause harm to breast-fed children |
| | H400 | : | Very toxic to aquatic life |
| | H411 | : | Toxic to aquatic life with long lasting effects |
| Precautionary Statements | P202 | : | Do not handle until all safety precautions have been read and understood. |
| | P210 | : | Keep away from heat/sparks/open flames/hot surfaces No smoking. |
| | P211 | : | Do not spray on an open flame or other ignition source. |
| | P251 | : | Pressurized container: Do not pierce or burn, even after use. |
| | P260 | : | Do not breathe spray. |
| | P263 | : | Avoid contact during pregnancy/while nursing. |
| | P264 | : | Wash hands thoroughly after handling. |
| | P270 | : | Do not eat, drink or smoke when using this product. |
| | P271 | : | Use only outdoors or in a well-ventilated area. |
| | P273 | : | Avoid release to the environment. |
| | P280 | : | Wear protective gloves and eye protection. |
| | P301+P310 | : | If swallowed: Immediately call POISON CENTER |
| | P302+P352 | : | If on skin: Wash with plenty of water |
| | P304+P340 | : | If inhaled: Remove person to fresh air and keep comfortable for breathing |
| | P305+P351+P338 | : | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if |
| | | | present and easy to do. Continue rinsing |
| | P308+P313 | : | If exposed or concerned: Get medical advice/attention. |
| | P312 | : | Call physician if you feel unwell |
| | P331 | : | Do NOT induce vomiting. |
| | P332+P313 | : | If skin irritation occurs: Get medical advice/attention. |
| | P337+P313 | : | If eye irritation persists: Get medical advice/attention. |
| | P362+P364 | : | Take off contaminated clothing and wash it before reuse. |
| | P391 | : | Collect spillage. |
| | P403 | : | Store in a well-ventilated place. |
| | P410+P412 | : | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| | P501 | : | Dispose of contents/container to applicable regulations |
| | | | |

2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified

: None Identified.

2.4 Unknown acute toxicity

29.65% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 29.65% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 27.65% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance / Mixture

Substance / Mixture

: Mixture

3.2 Composition

| Substance name | CAS Number | % wt* | Classification |
|--|------------|---------|---|
| Trichloroethylene | 79-01-6 | 10 - 30 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H336 Aquatic Acute 3, H402 |
| | | | Aquatic Chronic 3, H412 |
| Hydrotreated Heavy Naphthenic Distillate | 64742-52-5 | 10 - 30 | Asp. Tox. 1, H304 |



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| Substance name | CAS Number | % wt* | Classification |
|-----------------------|------------|---------|---|
| Chloroalkanes C14-C17 | 85535-85-9 | 10 - 30 | Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| N-Butane | 106-97-8 | 5 - 10 | Flam. Gas 1, H220 Press. Gas (Diss.), H280 |
| Isobutane | 75-28-5 | 5 - 10 | Flam. Gas 1, H220 Press. Gas (Diss.), H280 |
| Propane | 74-98-6 | 1 - 5 | Flam. Gas 1, H220 Press. Gas (Diss.), H280 |

Full text of hazard classes and H-statements : see section 16

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 - FIRST-AID MEASURES

| 4.1 Description of First-Aid Mea | asures |
|--------------------------------------|--|
| General Measures | : Call a physician immediately. |
| Inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| Skin Contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| Eye Contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion | : Do NOT induce vomiting. Call a physician immediately. |
| First-Aid Responder Protection | : Wear adequate personal protective equipment based on the nature and severity of the emergency. |
| 4.2 Most Important Symptoms | and Effects, Both Acute and Delayed |
| Symptoms of Exposure | : Eye Irritation, Lassitude (Weakness), Liver Damage, Dermatitis, Confusion, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Drowsiness, Vomiting, Tremor, Cardiac Arrhythmias, Visual Disturbance. |
| Delayed Effects | : No known delayed effects. |
| Immediate Effects | : No known immediate effects. |
| Chronic Effects | : No known chronic effects. |
| Target Organs | : Central Nervous System, Eyes, Heart, Liver, Respiratory System, Skin, Kidneys. |
| 4.3 Indication of Immediate Me | edical Attention and Special Treatment |
| Notes to Physician | : Treat symptomatically. |
| Specific Treatments/Antidotes | : No Information Available. |
| Medical Conditions Aggravated | : May aggravate personnel with pre-existing disorders associated with any of the Target Organs. |
| SECTION 5 - FIRE-FIGHTING M | EASURES |
| 5.1 Suitable Extinguishing Med | ia |
| Extinguishing Media | : Water, carbon dioxide, dry chemical, universal aqueous film forming foam. |
| Unsuitable Media | : Water jet. |
| 5.2 Specific Hazards Arising from | m the Chemical or Mixture |
| Hazardous Combustion Products | : Decomposition products may include: oxides of carbon, smoke, vapors. See also Section 10.6. |
| Specific Hazards During Firefighting | : Flammable. Contents under pressure. In a fire or if heated, a pressure increase will occur which may result in container bursting. Vapors heavier than air may spread along the ground and travel to an ignition source. |
| 5.3 Special Protective Actions f | or Fire-Fighters |
| Firefighting Instructions | : Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat developed pressure. |
| Protection during Firefighting | : Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode. |
| SECTION 6 - ACCIDENTAL RELE | mode. |

SAFETY DATA SHEET

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chem-pake, INC.

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| | according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations |
| 6.1 Personal Precautio | ns, Protective Equipment and Emergency Procedures |
| For Non-Emergency Personnel | : No action should be taken involving any personnel without suitable training. Evacuate surrounding areas. |
| For Non-Emergency Personner | Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so. |
| For Emergency Personnel | : Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above. |
| 6.2 Environmental Pre | autions |
| Environmental Precautions | : Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination. |
| 6.3 Methods and Mate | rials for Containment and Cleaning up |
| Containment Procedures | : Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents. |
| Cleanup Procedures | : Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal. |
| Other Information | : Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never incinerated or burned. |
| Prohibited Materials | : Combustible absorbent material such as sawdust. Use of equipment that may cause sparking. |
| | |
| SECTION 7 - HANDLING | AND STOKAGE |
| 7.1 Precautions for Sat | e Handling |
| General Handling Precautions | KEEP OUT OF THE REACH OF CHILDREN. Avoid prolonged or repeated skin contact. Avoid breathing of vap Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flam or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. Use o with adequate ventilation, opening doors or windows to achieve cross-ventilation. |
| Hygiene Recommendations | : Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contamin |

| | | clothing and protective equipment before entering eating or smoking areas. |
|---------------|------------------------|---|
| 7.2 Co | onditions for Safe Sto | orage Including Any Incompatibilities |
| Storage Requ | irements | : Storage of individual cans should be done in an area below 55°C (120 °F), and away from heat sources. Ensure can is in a secure place to prevent knocking over and accidental rupture. For storage of pallet quantities, compliance with NFPA 30B (Manufacture and Storage of Aerosol Products) is recommended. |
| Incompatibili | ties | : Segregate storage away from materials indicated in Section 10. |
| NFPA 30B Cla | ssification | : This product is classified as a Level 2 Aerosol per NFPA 30B |

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

| N-Butane (106-97-8) | | |
|---------------------|------------------------------|------------|
| ACGIH | ACGIH TWA (mg/m³) | 1000 ppm |
| OSHA | OSHA PEL (TWA) (ppm) | 800 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 1900 |
| NIOSH | NIOSH REL (TWA) (ppm) | 800 ppm |
| California | California PEL (TWA) (mg/m3) | 1900 mg/m³ |
| California | California PEL (TWA) (ppm) | 800 ppm |
| Propane (74-98-6) | | |
| OSHA | OSHA PEL (TWA) (mg/m³) | 1800 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| NIOSH | US IDLH (ppm) | 2100 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 1800 mg/m³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 1000 ppm |



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| Propane (74-98-6) | | |
|---|--|--|
| California | California PEL (TWA) (mg/m3) | 1800 mg/m³ |
| California | California PEL (TWA) (ppm) | 1000 ppm |
| , | | 1000 ppm |
| Isobutane (75-28-5) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 1000 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 1900 mg/m³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 800 ppm |
| Trichloroethylene (79-01-6) | | |
| ACGIH | ACGIH TWA (mg/m³) | 10 ppm |
| ACGIH | ACGIH TWA (ppm) | 54 mg/m³ |
| ACGIH | ACGIH Ceiling (mg/m ³) | 25 ppm |
| ACGIH | ACGIH Ceiling (ppm) | 135 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |
| OSHA | OSHA PEL (Ceiling) (ppm) | 200 ppm |
| NIOSH | US IDLH (ppm) | 1000 ppm |
| California | California PEL (TWA) (mg/m3) | 135 mg/m ³ |
| California | California PEL (TWA) (ppm) | 25 ppm |
| California | California PEL (STEL) (ppm) | 300 ppm |
| California | California PEL (Ceiling) (mg/m3) | 537 mg/m ³ |
| California | California PEL (Ceiling) (ppm) | 100 ppm |
| Biological Exposure Index | Trichloroacetic acid in urine, End of workweek (Ns) | 100 mg/g creatinine |
| Biological Exposure Index | Trichloroacetic acid and trichloroethanol in urine, End of shift at end of workweek (Ns) | 300 mg/g creatinine |
| Biological Exposure Index | Free trichloroethanol in blood, End of shift at end of workweek (Ns) | 4 mg/l |
| <u> </u> | | , |
| Hydrotreated Heavy Naphthenic D | | |
| ACGIH | ACGIH TWA (ppm) | 5 mg/m ³ Oil Mist |
| OSHA | OSHA PEL (TWA) (mg/m³) | 10 mg/m³ Oil Mist |
| California | California PEL (TWA) (mg/m3) | 5 mg/m³ |
| 8.2 Exposure Controls | | |
| Engineering Measures | : Use only with adequate ventilation. General ventilation (typically 10 air chan Ventilation rates should be matched to conditions. Local exhaust ventilation may be necessary to control air contamination below that of the lowest OEL | or an enclosed handling syster |
| Personal Protective Equipment | | |
| Eye / Face Protection | : Safety glasses with side shields are recommended as a minimum for any type Where eye contact with this material could occur, chemical splash proof gog | • |
| | | |
| Hand Protection | : Chemical-resistant aloves, tested accordina to ASTMF903-17. | - |
| Hand Protection | : Chemical-resistant gloves, tested according to ASTMF903-17. | - |
| Hand Protection Remarks | Chemical-resistant gloves, tested according to ASTMF903-17. Choose gloves to protect hands against chemicals depending on the concentri hazardous substance and specific to the place of work. | ration and quantity of the |
| | : Choose gloves to protect hands against chemicals depending on the concent | ould be needed. When prolong |
| Remarks | Choose gloves to protect hands against chemicals depending on the concentre hazardous substance and specific to the place of work. For brief contact, no precautions other than clean body-covering clothing shotes the second second | ould be needed. When prolong gredients listed in Section 2. Inder certain circumstances |
| Remarks Skin and Body Protection | Choose gloves to protect hands against chemicals depending on the concentry hazardous substance and specific to the place of work. For brief contact, no precautions other than clean body-covering clothing show or repeated contact could occur, use protective clothing impervious to the ingeneration of the place o | ould be needed. When prolong gredients listed in Section 2. Inder certain circumstances |
| Remarks Skin and Body Protection Respiratory Protection | Choose gloves to protect hands against chemicals depending on the concentry hazardous substance and specific to the place of work. For brief contact, no precautions other than clean body-covering clothing show or repeated contact could occur, use protective clothing impervious to the ingenerated respirator with an organic vapor cartridge may be permissible or where airborne concentrations are expected to exceed occupational exposure | ould be needed. When prolong gredients listed in Section 2. Inder certain circumstances e limits. |

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| 9.1 Physical Properties | | | |
|-------------------------|----------------------------|----------------------------------|---------------|
| Boiling Point | > 63.00 °C | Melting / Freezing Point | > -86.00 °C |
| Flash Point, Liquid | > 0.00 °C | Flash Point, Propellant | -104.00 °C |
| Explosive Limits | LEL: 1.00 UEL: 19.00 vol % | Autoignition Temperature, Liquid | 250.00 °C |
| Flammability | Flammable Liquid | Density | 0.916 g/cm³ |
| Molecular Weight | Not Available | Weight | 7.644 lbs/gal |
| Vapor Pressure | Not Available | рН | Not Available |



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| Vapor De | ensity | Not Available | Evaporation Rate (nBAc=1) | Not Available |
| Viscosity | • | Not Available | Partition Coefficient (Log Pow) | Not Available |
| Odor Thr | | Not Available | Refractive Index | Not Available |
| Physical | | Pressurized Product | Heat Of Combustion | 11009.90 BTU/lb |
| | nce / Color | Straw colored liquid | Water Solubility | Not Available |
| Odor | | Characteristic | Decomposition Temperature | Not Available |
| | | | | |
| 9.2 | Environmental Prop | | | |
| Percent | | 42.70 % wt | VOC Regulatory | 209.77 g/L (1.75 lbs/gal) |
| Percent | | 17.02 % wt | VOC Actual | 155.90 g/L (1.30 lbs/gal) |
| Percent | | 25.68 % wt | HAP Content | 235.23 g/L (1.96 lbs/gal) |
| | Varming Potential | 36.19 GWP | Maximum Incremental Reactivity | 0.3400 g O3/g |
| Ozone D | epletion Potential | 0.00 ODP | | |
| SECTIO 10.1 | ON 10 - STABILITY / Reactivity | AND REACTIVITY | | |
| Reactivit | у | : No specific test d | lata related to reactivity is available for this prod | ucts or its ingredients. |
| 10.2 | Chemical Stability | | | |
| Chemical | l Stability | : This product is st | able. | |
| 10.3 | Possibility of Hazardo | ous Peactions | | |
| | us Reactions | | nditions of storage and use, hazardous reactions | are not expected to occur |
| 110201000 | | . 61461 161114 66 | | |
| 10.4 | Conditions to Avoid | | | |
| Conditio | ns to Avoid | : Electrostatic Disc | harge, Other Ignition Sources, Hot Surfaces, Hea | t, Flames, Sparks. |
| 10.5 | Incompatible Materi | als | | |
| Material | s to Avoid | | Agents, Strong Reducing Agents, Alkali Metals, F e, Aluminum Powder, Epoxides, Strong Bases. | lalogen Compounds, Aluminum Chloride, |
| 10.6 | Hazardous Decompo | sition Products | | |
| Thermal | Decomposition | : Hydrogen Chlorid | de Gas, Phosgene. | |
| SECTI | | GICAL INFORMATION | | |
| SECTION | | SICAL INFORMATION | | |
| 11.1 | Information on Toxic | ological Effects | | |
| N-Butan | e (CAS: 106-97-8 / EC: 203-4 | 48-7) | | |
| LC50 Inh | alation (Rat) | 658 mg/l/4h (Che | emInfo) | |
| | alation (Rat) | 276000 ppm/4h (| | |
| Propane | (CAS: 74-98-6 / EC: 200-827 | -9) | | |
| - | alation (Rat) | 658 mg/l/4h (Lit.) |) | |
| Isobutan | ne (CAS: 75-28-5 / EC: 200-85 | ;7-2) | | |
| | alation (Rat) | 368000 ppm/4h (| (ChemInfo) | |
| Trichloro | oethylene (CAS: 79-01-6 / EC | : 201-167-4) | | |
| LD50 Ord | , , , | 5620 mg/kg (Che | emInfo) | |
| | rmal (Rabbit) | > 20000 mg/kg (F | | |
| | alation (Rat) | 7250 ppm/4h (Ch | • | |
| | | tillate (CAS: 64742-52-5 / EC: 265-15 | | |
| LD50 Ord | | > 5000 mg/kg (Ch | <u>.</u> | |
| | rmal (Rabbit) | > 2000 mg/kg (Ch | • • | |
| | | , | | |



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| Hydrotreated Heavy Naphthenic Distillate (CAS: 647 | 42-52-5 / EC: 265-156-6) | | | | | |
|--|---|---|--|--|--|--|
| LC50 Inhalation (Rat) | 2180 ml/m³ | 2180 ml/m³ | | | | |
| Chloroalkanes C14-C17 (CAS: 85535-85-9 / EC: 287-4 | 177-0) | | | | | |
| LD50 Oral (Rat) | > 2000 mg/kg (External SDS) | > 2000 mg/kg (External SDS) | | | | |
| LD50 Dermal (Rat) | > 2000 mg/kg (External SDS) | | | | | |
| Routes Of Exposure | : Eye Contact, Ingestion, Skin Conto | ict, Inhalation, Skin Absorption. | | | | |
| Delayed and Immediate Effects and Also Chronic | hronic : See Section 4.2 | | | | | |
| Effects from Short and Long Term Exposure | | | | | | |
| Skin Corrosion/Irritation | : Causes skin irritation. | Causes skin irritation. | | | | |
| Eye Damage/Irritation | : Causes serious eye irritation. | Causes serious eye irritation. | | | | |
| Respiratory or Skin Sensitization | : Not classified | Not classified | | | | |
| Germ Cell Mutagenicity | : Suspected of causing genetic defe | Suspected of causing genetic defects. | | | | |
| Reproductive Toxicity | : May cause harm to breast-fed chi | May cause harm to breast-fed children. | | | | |
| STOT-Single Exposure | : May cause drowsiness or dizzines | S. | | | | |
| STOT-Repeated Exposure | : Not classified | | | | | |
| Aspiration Hazard | : May be fatal if swallowed and en | : May be fatal if swallowed and enters airways. | | | | |
| Vaporizer | : Aerosol | | | | | |
| Carcinogen Data | : The following ingredients are liste | d as known or suspected carcinogens: | | | | |
| | Trichloroethylene (CAS: 79-01-6 | / EC: 201-167-4) | | | | |
| | IARC group 2A - Probably Carcinogenic to Humans | | | | | |

3 - Reasonably anticipated to be Human Carcinogen

A2 - Suspected human carcinogen

National Toxicity Program

(NTP) Status ACGIH Category

SECTION 12 - ECOLOGICAL INFORMATION

| 12.1 Ecotoxicity and Ecological Properties | | | | |
|--|---|--|--|--|
| n-Butane (106-97-8) | | | | |
| Persistence and Degradibility | Readily biodegradable in water. | | | |
| Bioconcentration Factor | 33.52 | | | |
| Log Pow | 2.89 | | | |
| Bioacculative Potential | Low potential for bioaccumulation (Log Kow < 4). | | | |
| Log Koc | 1.641 | | | |
| Propane (74-98-6) | | | | |
| Persistence and Degradibility | Readily biodegradable in water. Not applicable (gas). Photodegradation in the air. | | | |
| BCF Fish | 9 - 25 (BCF) | | | |
| Log Pow | 2.28 (Calculated) | | | |
| Bioacculative Potential | Low potential for bioaccumulation (Log Kow < 4). | | | |
| Isobutane (75-28-5) | | | | |
| Persistence and Degradibility | Readily biodegradable in water. Biodegradable in the soil. Not applicable (gas). | | | |
| BCF Fish | 26.62 | | | |
| Log Pow | 2.76 | | | |
| Bioacculative Potential | Low potential for bioaccumulation (BCF < 500). | | | |
| Log Koc 1.545 | | | | |
| Trichloroethylene (79-01-6) | | | | |
| LC50 Fish | 41 mg/l Fathead Minnow - 96h | | | |
| EC50 Daphnia | 18 mg/l Water Flea - 48hr | | | |
| Persistence and Degradibility | Not readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerol conditions. | | | |
| BCF Fish | 17 (BCF; 336 h) | | | |
| BCF Other Aquatic Organisms | 3440 (BCF; 120 h) | | | |
| Log Pow | 2.29 - 2.42 (Experimental value) | | | |
| Bioacculative Potential | Low potential for bioaccumulation (BCF < 500). | | | |



Part No. 1041D (Aerosol)

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Metal Tap #5

| Hydrotreated Heavy Naphthenic Distillate (| 64742-52-5) |
|--|--|
| LC50 Fish | > 5000 mg/l Rainbow Trout - 96hr |
| EC50 Daphnia | > 1000 mg/l Water Flea - 48hr |
| Persistence and Degradibility | Biodegradability in water: no data available. |
| Log Pow | > 6.5 |
| Bioacculative Potential | No bioaccumulation data available. |
| Chloroalkanes C14-C17 (85535-85-9) | |
| LC50 Fish | >= 5000 mg/l Common Bleak - 96hr |
| EC50 Daphnia | 0.0059 mg/l Water Flea - 48hr |
| EC50 Other Aquatic Organisms | 3.2 mg/l Green Algae - 96hr |
| Persistence and Degradibility | Not readily biodegradable in water. Forming sediments in water. Not readily biodegradable in the soil. Low |
| | potential for mobility in soil. |
| BCF Fish | 6660 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 35 days; Oncorhynchus mykiss; Flow- |
| | through system; Fresh water; Experimental value) |
| Log Pow | 5.47-8.01, Experimental value; >5; Literature |
| Bioacculative Potential | High potential for bioaccumulation (Log Kow > 5). |
| Log Koc | log Koc,5; Experimental value |

SECTION 13 - DISPOSAL CONSIDERATIONS

| 13.1 Waste Treatment Methods | |
|------------------------------|--|
| Waste Disposal | : Characteristics and waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste must be disposed of in compliance with the respective national, federal, state, and/or local regulations. |
| Waste Disposal Of Packaging | : In the United States, an aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations. |
| Landfill Precautions | : Not Available. |
| Incineration Precautions | : ** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE **. |

SECTION 14 - TRANSPORTATION INFORMATION

| 14.1 UN Number | | | DOT (USA) | IATA (AIR) | IMDG (OCEAN) | |
|--|-------------------------|-------|----------------------------|--|---|--|
| UN Number | | : | UN1950 | UN1950 | UN1950 | |
| 14.2 | UN Proper Shipping Name | | DOT (USA) | IATA (AIR) | IMDG (OCEAN) | |
| UN Proper Shipping Name 14.3 Transport Hazard Class(es) | | : | Aerosols, Limited Quantity | Aerosols, Flammable, Limited Quantity | Aerosols, Limited Quantity IMDG (OCEAN) | |
| | | | DOT (USA) | IATA (AIR) | | |
| Transpo | rt Hazard Class(es) | : 2.1 | | 2.1 | 2.1 | |
| Labels | | : | None | 2.1 - Flammable gas | None | |
| Limited | Quantity | : | Yes | Yes | Yes | |
| EmS Coo | de | : | Not Applicable | Not Applicable | F-D, S-U | |
| 14.4 | Packing Group | | DOT (USA) | IATA (AIR) | IMDG (OCEAN) | |
| Packing Group | | : | None | None | None | |

| | SAF | ETY DATA SH | EET | | | L D (Aerosol) ht Date: 3/1/2018 n Date: 3/1/2018 |
|--|--|--|---|---|--|--|
| chem-pak [®] , INC. | Metal Tap #5 | | | | Supersedes Date: 2/17/2015 Issue Date: 2/24/2003 Version: 8.0 (EN)-US Page: 9/10 | |
| | | Vol. 77, No. 58 / Monday, March 26 | | | | |
| 14.5 Environmental Hazards Marine Pollutant | D | NOT (USA) | | (AIR) | IMDG (OC | CEAN) |
| | · | NO | N | 0 | NO | |
| 14.6 Special Precautions | | | | | | |
| Precautions | : None Identifie | ed | | | | |
| 14.7 Transport in Bulk | | | | | | |
| Remarks | : Not applicabl | e for product as supplied | | | | |
| SECTION 15 - REGULATORY INF | ORMATION | | | | | |
| 15.1 Federal Regulations | | | | | | |
| SARA Section 313 | | ubject to the reporting requ rization Act (SARA) of 1986 | - | | f the Superfund Am | nendments |
| | Trichloroethy | lene | | CAS-No. 79-01-6 | 10 - | - 30% |
| TSCA Section 12(b) | | or mixture is not known to of section 12(b) of the Tox | | | | - |
| CERCLA Reportable Quantity | | ubject to reporting requirer n, and Liability Act (CERCLA | - | | | |
| | Trichloroethy | lene | | CAS-No. 79-01-6 | 100 |) lb |
| SARA Section 311/312 Hazard Classes | · Eiro hazard S | | | | | |
| | : All chemical s | udden release of pressure i substances in this product a pliance with a TSCA Invento | are either listed | on the Toxic Substan | ces Control Act (TSC | CA) Inventory |
| TSCA Inventory (United States) | : All chemical s | substances in this product a | are either listed | on the Toxic Substan | ces Control Act (TSC | CA) Inventory |
| TSCA Inventory (United States) | : All chemical s or are in com | substances in this product a pliance with a TSCA Invento contains chemcials known t | are either listed ory exemption. | | | |
| TSCA Inventory (United States) 15.2 State Regulations | : All chemical s or are in com : This product o reproductive | substances in this product a pliance with a TSCA Invento contains chemcials known t | are either listed ory exemption. | | | |
| TSCA Inventory (United States) 15.2 State Regulations | : All chemical s or are in com : This product or reproductive Trichloroethy Trichloroethy | ubstances in this product a pliance with a TSCA Invento contains chemcials known t harm. lene (79-01-6) lene (79-01-6) | to the State of C Cancer Developme | alifornia to cause ca ental Toxicity | ncer, birth defects o Yes Yes | 25.68 % 25.68 % |
| TSCA Inventory (United States) 15.2 State Regulations | : All chemical s or are in com : This product of reproductive Trichloroethy Trichloroethy | substances in this product a pliance with a TSCA Invento contains chemcials known t harm. lene (79-01-6) lene (79-01-6) | to the State of C Cancer Developme Reproduct | California to cause ca ental Toxicity ive Toxicity, Male | ricer, birth defects of Yes Yes Yes | 25.68 % |
| TSCA Inventory (United States) 15.2 State Regulations | : All chemical s or are in com : This product of reproductive Trichloroethy Trichloroethy | ubstances in this product a pliance with a TSCA Invento contains chemcials known t harm. lene (79-01-6) lene (79-01-6) | to the State of C Cancer Developme Reproduct | alifornia to cause ca ental Toxicity | ncer, birth defects o Yes Yes | 25.68 % 25.68 % |
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| TSCA Inventory (United States) 15.2 State Regulations California Proposition 65 | : All chemical s or are in com : This product of reproductive Trichloroethy Trichloroethy Trichloroethy | substances in this product a pliance with a TSCA Invento contains chemcials known t harm. lene (79-01-6) lene (79-01-6) lene (79-01-6) lene (79-01-6) chemical(s) appear on one 6-97-8) | to the State of C Cancer Developme Reproduct No signific | California to cause ca ental Toxicity ive Toxicity, Male ance risk level (NSRL) RTK (Right to Know) I U.S New Jersey - Righ | ncer, birth defects of Yes Yes Yes 14 µg/day ists as indicated t to Know Hazardous | 25.68 % 25.68 % 25.68 % |
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Metal Tap #5

| | 4.1 | First-aid measures after inhalation | Added |
|---------------------------|--------------|---|-------|
| | 4.1 | First-aid measures after ingestion | Added |
| | 4.1 | First-aid measures after eye contact | Added |
| | 4.1 | First-aid measures after skin contact | Added |
| | 4.1 | First-aid measures general | Added |
| | 7.2 | NFPA 30B Classification | Added |
| | 8.2 | Compliance | Added |
| | 8.2 | Remarks | Added |
| | 8.2 | Environmental Exposure Controls | Added |
| | 8.2 | Eye / Face Protection | Added |
| | 8.2 | Skin and Body Protection | Added |
| | 8.2 | Engineering Measures | Added |
| | 8.2 | Respiratory Protection | Added |
| | 8.2 | Hand protection | Added |
| | 8.2 | Eye protection | Added |
| | 8.2 | Appropriate engineering controls | Added |
| | 9 | Explosive properties | Added |
| | 9 | Gas group | Added |
| | 9 | Melting point | Added |
| | 9 | Flash point | Added |
| | 9 | Explosive limits (vol %) | Added |
| | 9 | Boiling point | Added |
| | 9 | Auto-ignition temperature | Added |
| | 9 | Specific gravity / density | Added |
| | 10 | Hazardous decomposition products | Added |
| | 10 | Conditions to avoid | Added |
| | 11 | Carcinogen Status | Added |
| | 12.1 | Ecology - general | Added |
| | 14 | User Precautions | Added |
| | 14 | EmS Code (Column 15 in IMDG Book 2) | Added |
| | 15 | Select the Appropriate Proposition 65 Notice | Added |
| | 15 | Display TSCA summary in 15.1 | Added |
| | 15 | Display SARA 313 summary in 15.1 | Added |
| | 15 | Display California Proposition 65 summary in 15.3 | Added |
| Full Text of H-Statements | H Code | H Phrase | |
| | H220 | Extremely flammable gas | |
| | H220 H280 | Extremely flammable gas Contains gas under pressure; may explode if heated | |
| | | | |
| | H304 H315 | May be fatal if swallowed and enters airways | |
| | | Causes skin irritation | |
| | H319 | Causes serious eye irritation May cause drowsiness or dizziness | |
| | H336 | | |
| | H341 | Suspected of causing genetic defects | |
| | H350 | May cause cancer | |
| | H362 | May cause harm to breast-fed children | |
| | H400 | Very toxic to aquatic life | |
| | H402 | Harmful to aquatic life | |
| | H410 | Very toxic to aquatic life with long lasting effects | |
| | H412 | Harmful to aquatic life with long lasting effects | |

Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.