



Safety Data Sheet

Issue Date No data available

Revision Date 30-Mar-2015

Revision Number 5

1. IDENTIFICATION

Product identifier

Product Code FC20-00WHA
Product Name POTA-POX FC TNEMEC WHITE

Other means of identification

Common Name SERIES FC20, PART A
UN/ID no. 1263

Recommended use of the chemical and restrictions on use

Recommended Use industrial paint.
Uses advised against Consumer use, For professional use only. Not for residential use.

Details of the supplier of the safety data sheet

Manufacturer Address
Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372

Emergency telephone number

Company Phone Number Tnemec Regulatory Dept: 816-474-3400
24 Hour Emergency Phone Number 800-535-5053 (Infotrac)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--|------------|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |
| Reproductive Toxicity | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Flammable Liquids | Category 3 |

Label elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Harmful if swallowed
Harmful if inhaled
Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
May cause respiratory irritation. May cause drowsiness or dizziness
Causes damage to organs through prolonged or repeated exposure
Flammable liquid and vapor

**Appearance** opaque**Physical state** liquid**Odor** aromatic**Precautionary Statements****Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/mixing/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

Response

IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
If skin irritation or rash occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
In case of fire: Use CO₂, dry chemical, or foam for extinction

Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed
Keep away from children

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other information**

Acute Toxicity

15.0351 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight-% |
|-------------------------------|------------|----------|
| BARIUM SULFATE (TOTAL DUST) | 7727-43-7 | 10 - 30% |
| TITANIUM DIOXIDE (TOTAL DUST) | 13463-67-7 | 10 - 30% |
| POLYAMIDE RESIN | 68410-23-1 | 10 - 30% |
| TALC (RESPIRABLE DUST) | 14807-96-6 | 10 - 30% |
| XYLENE | 1330-20-7 | 1 - 10% |
| N-BUTANOL (SKIN) | 71-36-3 | 1 - 10% |
| ETHYL BENZENE | 100-41-4 | 1 - 10% |
| AMORPHOUS SILICA | 7631-86-9 | 1 - 10% |
| TRIETHYLENE TETRAMINE | 112-24-3 | 0.1 - 1% |
| ALUMINUM HYDROXIDE | 21645-51-2 | 0.1 - 1% |
| BENZENE, 1,3-DIMETHYL | 108-38-3 | 0.1 - 1% |
| ZIRCONIUM OXIDE | 1314-23-4 | 0.1 - 1% |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures**

| | |
|---|--|
| General advice | If symptoms persist, call a physician. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. |
| Inhalation | Remove to fresh air. Oxygen or artificial respiration if needed. |
| Ingestion | If swallowed, do not induce vomiting. Get medical attention immediately. |
| Self-protection of the first aider | Use personal protective equipment. Avoid contact with eyes, skin and clothing. |

Most important symptoms and effects, both acute and delayed

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media Water.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours In the event of fire and/or explosion do not breathe fumes

Hazardous combustion products Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon oxides. Hydrocarbons. Nitrogen oxides (NO_x). Aldehydes.

Protective equipment and precautions for firefighters

Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. MAY CAUSE HEAT AND PRESSURE BUILD-UP IN CLOSED CONTAINERS. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Use personal protective equipment. Remove all sources of ignition.

Environmental Precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Remove all sources of ignition. Spills may be collected with inert, absorbent material for proper disposal. Use non-sparking tools, protective gloves, goggles and clothing, adequate ventilation, avoid the breathing of vapors and use respiratory protective devices. Transfer absorbent material to suitable containers for proper disposal.

Methods for cleaning up If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Close container after each use. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. If splashes are likely to occur, wear goggles. Wear protective gloves/clothing. Do not burn, or use a cutting torch on, the empty drum. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep away from heat, sparks and flame. Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible products Epoxy constituents. Strong oxidizing agents. Acids. Cleaning solutions such as Chromerge and Aqua Regia. Water, alcohols, amines, strong bases, metal components, surface active materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---------------------------|--|------------------------|
| BARIUM SULFATE (TOTAL DUST) 7727-43-7 | TWA: 5 mg/m ³ | TWA: 10 mg/m ³ TWA: 5 mg/m ³ TWA: 15 mg/m ³ | |
| TITANIUM DIOXIDE (TOTAL DUST) 13463-67-7 | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ TWA: 15 mg/m ³ | 5000 mg/m ³ |
| TALC (RESPIRABLE DUST) 14807-96-6 | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ | 1000 mg/m ³ |

| | | | |
|-----------------------------------|-------------------------------|---|------------------------|
| XYLENE 1330-20-7 | TWA: 100 ppm STEL: 150 ppm | TWA: 100 ppm TWA: 435 mg/m ³ STEL: 150 ppm STEL: 655 mg/m ³ | |
| N-BUTANOL (SKIN) 71-36-3 | TWA: 20 ppm | Skin Ceiling: 50 ppm Ceiling: 150 mg/m ³ TWA: 100 ppm TWA: 300 mg/m ³ | 1400 ppm |
| ETHYL BENZENE 100-41-4 | TWA: 20 ppm | TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³ | 800 ppm |
| AMORPHOUS SILICA 7631-86-9 | - | TWA: 6 mg/m ³ | 3000 mg/m ³ |
| ALUMINUM HYDROXIDE 21645-51-2 | TWA: 1 mg/m ³ | - | |
| BENZENE, 1,3-DIMETHYL 108-38-3 | TWA: 100 ppm STEL: 150 ppm | - | 900 ppm |
| ZIRCONIUM OXIDE 1314-23-4 | TWA: 5 mg/m ³ | - | 25 mg/m ³ |

Appropriate engineering controls

Engineering measures

Sufficient ventilation, in volume and pattern, should be provided through both local and general exhaust to keep the air contaminant concentration below current applicable OSHA Permissible Exposure Limits (PEL) and ACGIH's Threshold Limit Values (TLV). Appropriate ventilation should be employed to remove hazardous decomposition products formed during welding or flame cutting operations of surfaces coated with this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Goggles If splashes are likely to occur, wear face-shield. Use chemical resistant splash type goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection

Use only with adequate ventilation. Do not breathe vapors, spray mist, or dust. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist or dust levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust created by cutting, sanding, or grinding.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---------------------------------------|--------------------------|-----------------------------|--------------------------|
| Physical state | liquid | Odor | aromatic |
| Appearance | opaque | Odor threshold | No information available |
| Color | No information available | | |
| Property | Values | Remarks | |
| pH | | No data available | |
| Melting point / freezing point | | No data available | |
| Boiling point / boiling range | 116 °C / 241.0 °F | | |
| Flash point | 28 °C / 82.0 °F | | |
| Evaporation rate | | Pensky Martens - Closed Cup | |

| | | |
|---|-------------------------|-------------------|
| Flammability (solid, gas) | | Not applicable |
| Flammability Limit in Air | | No data available |
| Upper flammability limit | N/A | |
| Lower flammability limit | 1.0 | |
| Vapor pressure | | No data available |
| Vapor density | | No data available |
| Specific gravity | 1.65728 | g/cm ³ |
| Water solubility | Insoluble in cold water | |
| Solubility in other solvents | | No data available |
| Partition coefficient: n-octanol/water | | No data available |
| Autoignition temperature | | No data available |
| Decomposition temperature | | No data available |
| Kinematic viscosity | | No data available |
| Dynamic viscosity | 1000 centipoises | approx |

Other Information

| | |
|---|------------------|
| Density | 13.82171 lbs/gal |
| Volatile organic compounds (VOC) content | 2.9689 lbs/gal |
| Total volatiles weight percent | 21.48 % |
| Total volatiles volume percent | 42.2 % |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks. Epoxy constituents.

Incompatible materials

Epoxy constituents, Strong oxidizing agents, Acids, Cleaning solutions such as Chromerge and Aqua Regia, Water, alcohols, amines, strong bases, metal components, surface active materials

Hazardous decomposition products

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon oxides. Nitrogen oxides (NOx). Hydrocarbons. Aldehydes.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

| | |
|---------------------|---|
| Inhalation | May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. |
| Eye contact | Corrosive to the eyes and may cause severe damage including blindness. |
| Skin contact | Irritating to skin. |
| Ingestion | Harmful if swallowed. |

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|-----------------------|-------------|-----------------|
| TITANIUM DIOXIDE (TOTAL DUST) 13463-67-7 | > 10000 mg/kg (Rat) | | |

| | | | |
|-----------------------------------|---|---|---|
| XYLENE 1330-20-7 | = 3500 mg/kg (Rat) | > 1700 mg/kg (Rabbit) > 4350 mg/kg (Rabbit) | = 29.08 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h |
| N-BUTANOL (SKIN) 71-36-3 | = 700 mg/kg (Rat) = 790 mg/kg (Rat) | = 3402 mg/kg (Rabbit) = 3400 mg/kg (Rabbit) | > 8000 ppm (Rat) 4 h |
| ETHYL BENZENE 100-41-4 | = 3500 mg/kg (Rat) | = 15400 mg/kg (Rabbit) | = 17.2 mg/L (Rat) 4 h |
| AMORPHOUS SILICA 7631-86-9 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 2.2 mg/L (Rat) 1 h |
| TRIETHYLENE TETRAMINE 112-24-3 | = 2500 mg/kg (Rat) | = 550 mg/kg (Rabbit) | |
| ALUMINUM HYDROXIDE 21645-51-2 | > 5000 mg/kg (Rat) | | |
| BENZENE, 1,3-DIMETHYL 108-38-3 | = 5000 mg/kg (Rat) | = 14100 µL/kg (Rabbit) | |

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Skin disorders.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosivity Corrosive to the eyes and may cause severe damage including blindness. May be corrosive to metals.

Sensitization May cause sensitization of susceptible persons.

Mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | ACGIH | IARC | NTP | OSHA |
|---|-------|----------|-----|------|
| TITANIUM DIOXIDE (TOTAL DUST) 13463-67-7 | | Group 2B | | X |
| TALC (RESPIRABLE DUST) 14807-96-6 | | Group 3 | | |
| XYLENE 1330-20-7 | | Group 3 | | |
| ETHYL BENZENE 100-41-4 | A3 | Group 2B | | X |
| AMORPHOUS SILICA 7631-86-9 | | Group 3 | | |
| BENZENE, 1,3-DIMETHYL 108-38-3 | | Group 3 | | |

Reproductive effects Suspected of damaging fertility or the unborn child.

STOT - single exposure Skin, Eyes, Central Nervous System (CNS)

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure

Target organ effects Central nervous system, Central Vascular System (CVS), Eyes, Lungs, respiratory system, Skin, blood, Gastrointestinal tract, kidney, liver.

Aspiration hazard Based on product level data, this product does not meet the requirement to be classified as an aspiration hazard. However, this product contains an ingredient that may cause aspiration if swallowed.

Acute Toxicity 15.0351 % of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

16.462 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Component | Toxicity to algae | Toxicity to fish | Toxicity to daphnia |
|--------------------------------------|-------------------|---|---------------------|
| TALC (RESPIRABLE DUST) 14807-96-6 | | 100: 96 h Brachydanio rerio g/L LC50 semi-static | |

| | | | |
|-----------------------------------|--|---|---|
| XYLENE 1330-20-7 | | LC50= 13.4 mg/L Pimephales promelas 96 h LC50 2.661 - 4.093 mg/L Oncorhynchus mykiss 96 h LC50 13.5 - 17.3 mg/L Oncorhynchus mykiss 96 h LC50 13.1 - 16.5 mg/L Lepomis macrochirus 96 h LC50= 19 mg/L Lepomis macrochirus 96 h LC50 7.711 - 9.591 mg/L Lepomis macrochirus 96 h LC50 23.53 - 29.97 mg/L Pimephales promelas 96 h LC50= 780 mg/L Cyprinus carpio 96 h LC50> 780 mg/L Cyprinus carpio 96 h LC50 30.26 - 40.75 mg/L Poecilia reticulata 96 h | EC50 = 3.82 mg/L 48 h LC50 = 0.6 mg/L 48 h |
| N-BUTANOL (SKIN) 71-36-3 | 500: 96 h Desmodesmus subspicatus mg/L EC50 500: 72 h Desmodesmus subspicatus mg/L EC50 | 1740: 96 h Pimephales promelas mg/L LC50 flow-through 1910000: 96 h Pimephales promelas µg/L LC50 static 100000 - 500000: 96 h Lepomis macrochirus µg/L LC50 static 1730 - 1910: 96 h Pimephales promelas mg/L LC50 static | 1897 - 2072: 48 h Daphnia magna mg/L EC50 Static 1983: 48 h Daphnia magna mg/L EC50 |
| ETHYL BENZENE 100-41-4 | 4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static | 11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static 32: 96 h Lepomis macrochirus mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 9.6: 96 h Poecilia reticulata mg/L LC50 static 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static | 1.8 - 2.4: 48 h Daphnia magna mg/L EC50 |
| AMORPHOUS SILICA 7631-86-9 | 440: 72 h Pseudokirchneriella subcapitata mg/L EC50 | 5000: 96 h Brachydanio rerio mg/L LC50 static | 7600: 48 h Ceriodaphnia dubia mg/L EC50 |
| TRIETHYLENE TETRAMINE 112-24-3 | 2.5: 72 h Desmodesmus subspicatus mg/L EC50 20: 72 h Pseudokirchneriella subcapitata mg/L EC50 3.7: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 570: 96 h Poecilia reticulata mg/L LC50 semi-static 495: 96 h Pimephales promelas mg/L LC50 | 31.1: 48 h Daphnia magna mg/L EC50 |
| BENZENE, 1,3-DIMETHYL 108-38-3 | 4.9: 72 h Pseudokirchneriella subcapitata mg/L EC50 static | 8.4: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 14.3 - 18: 96 h Pimephales promelas mg/L LC50 flow-through 12.9: 96 h Poecilia reticulata mg/L LC50 semi-static | 2.81 - 5.0: 48 h Daphnia magna mg/L EC50 Static |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in Environmental Media

| Component | log Pow |
|-----------------------------------|---------|
| XYLENE 1330-20-7 | 2.77 |
| N-BUTANOL (SKIN) 71-36-3 | 0.785 |
| ETHYL BENZENE 100-41-4 | 3.118 |
| TRIETHYLENE TETRAMINE 112-24-3 | -1.4 |
| BENZENE, 1,3-DIMETHYL 108-38-3 | 3.2 |

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods Keep container tightly closed. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

| Component | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|-----------------------------|------|-----------------------------------|------------------------|------------------------|
| XYLENE 1330-20-7 | | Included in waste stream: F039 | | U239 |
| N-BUTANOL (SKIN) 71-36-3 | | Included in waste stream: F039 | | U031 |
| ETHYL BENZENE 100-41-4 | | Included in waste stream: F039 | | |

| Component | CAWAST |
|--|--------------------|
| BARIUM SULFATE (TOTAL DUST) 7727-43-7 | Toxic |
| XYLENE 1330-20-7 | Toxic Ignitable |
| N-BUTANOL (SKIN) 71-36-3 | Toxic |
| ETHYL BENZENE 100-41-4 | Toxic Ignitable |

14. TRANSPORT INFORMATION

DOT

UN/ID no. 1263
 Proper Shipping Name paint
 Hazard Class 3
 Packing Group III
 Emergency Response Guide Number 128

IATA

UN/ID no. 1263
 Proper Shipping Name paint
 Hazard Class 3
 Packing Group III
 ERG Code 366

Additional information Call TNE MEC Traffic Department - 816-474-3400 for additional information or other modes of Transportation.

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
 DSL/NDSL Complies
 EINECS/ELINCS Does not comply
 ENCS Does not comply
 IECSC Does not comply
 KECL Does not comply
 PICCS Does not comply
 AICS Does not comply

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

| Component | HAPS Data |
|-----------------------|-----------|
| XYLENE | |
| ETHYL BENZENE | |
| BENZENE, 1,3-DIMETHYL | |

United States of America

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

| Component | SARA 313 - Threshold Values |
|---|-----------------------------|
| BARIUM SULFATE (TOTAL DUST) - 7727-43-7 | 1.0 |
| XYLENE - 1330-20-7 | 1.0 |
| N-BUTANOL (SKIN) - 71-36-3 | 1.0 |
| ETHYL BENZENE - 100-41-4 | 0.1 |
| BENZENE, 1,3-DIMETHYL - 108-38-3 | 1.0 |

SARA 311/312 Hazardous Categorization

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

| Component | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-----------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| XYLENE 1330-20-7 | 100 lb | | | X |
| ETHYL BENZENE 100-41-4 | 1000 lb | X | X | X |
| BENZENE, 1,3-DIMETHYL 108-38-3 | | | | X |

CERCLA

| Component | Hazardous Substances RQs | CERCLA EHS RQs | RQ |
|-----------------------------------|--------------------------|----------------|--|
| XYLENE 1330-20-7 | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |
| N-BUTANOL (SKIN) 71-36-3 | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| ETHYL BENZENE 100-41-4 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |
| BENZENE, 1,3-DIMETHYL 108-38-3 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |

United States of America

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer

| Component | California Prop. 65 |
|--|---------------------|
| TITANIUM DIOXIDE (TOTAL DUST) - 13463-67-7 | Carcinogen |
| ETHYL BENZENE - 100-41-4 | Carcinogen |

California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

State Right-to-Know

| Component | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| BARIUM SULFATE (TOTAL DUST) 7727-43-7 | X | X | X |
| TITANIUM DIOXIDE (TOTAL DUST) 13463-67-7 | X | X | X |
| TALC (RESPIRABLE DUST) 14807-96-6 | X | X | X |
| XYLENE 1330-20-7 | X | X | X |
| N-BUTANOL (SKIN) 71-36-3 | X | X | X |
| ETHYL BENZENE 100-41-4 | X | X | X |
| AMORPHOUS SILICA 7631-86-9 | X | X | X |
| TRIETHYLENE TETRAMINE 112-24-3 | X | X | X |
| BENZENE, 1,3-DIMETHYL 108-38-3 | X | X | X |
| ZIRCONIUM OXIDE 1314-23-4 | | X | |

16. OTHER INFORMATION

| | | | | |
|---|-----------|----------------|---------------|-------------------|
| NFPA | Health 2 | Flammability 3 | Instability 1 | Physical hazard * |
| HMIS (Hazardous Material Information System) | Health 2* | Flammability 3 | Reactivity 1 | |

Prepared By Tnemec Regulatory Dept: 816-474-3400
Revision Date 30-Mar-2015

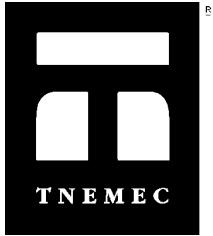
Revision Summary
 9 1 4 5 7 10 8 11 14

Disclaimer

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of MSDS



Safety Data Sheet

Issue Date 15-Oct-2015

Revision Date 15-Oct-2015

Revision Number 13

1. IDENTIFICATION

Product identifier

Product Code B020-0020B
Product Name F020/FC20 CONVERTER

Other means of identification

Common Name SERIES 20/FC20, PART B
UN/ID no. 1263

Recommended use of the chemical and restrictions on use

Recommended Use industrial paint.
Uses advised against Consumer use, For professional use only. Not for residential use.

Details of the supplier of the safety data sheet

Manufacturer Address Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372
Distributor Tnemec Company, Inc. 86 Boul, des Entreprises, Ste. 203 Boisbriand, Quebec Canada J7G 2T3

Emergency telephone number

Company Phone Number Tnemec Regulatory Dept: 816-474-3400
24 Hour Emergency Phone Number 800-535-5053 (Infotrac)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--|-------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |
| Reproductive Toxicity | Category 1B |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Flammable Liquids | Category 2 |


Label elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing cancer
May damage fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure
Highly flammable liquid and vapor



Appearance opaque

Physical state liquid

Odor aromatic

Precautionary Statements

Prevention

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting/mixing/equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge

Response

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: 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
- If skin irritation or rash occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

- Store locked up
- Store in a well-ventilated place. Keep cool
- Keep away from children

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

Toxic to aquatic life with long lasting effects

SEE SAFETY DATA SHEET

Acute Toxicity 0.6621 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight-% |
|------------------------|------------|----------|
| TALC (RESPIRABLE DUST) | 14807-96-6 | 30 - 60% |
| SOLID EPOXY RESIN | - | 10 - 30% |
| METHYL ISOBUTYL KETONE | 108-10-1 | 10 - 30% |
| EPOXY RESIN (LER) | 25085-99-8 | 10 - 30% |
| XYLENE | 1330-20-7 | 1 - 10% |
| ETHYL BENZENE | 100-41-4 | 1 - 10% |

| | | |
|-------------------------------|------------|----------|
| BENZENE, 1,4-DIMETHYL | 106-42-3 | 0.1 - 1% |
| NON-HAZARDOUS MATERIAL | C289 | 0.1 - 1% |
| HYDROGENATED LIGHT DISTILLATE | 64742-47-8 | 0.1 - 1% |
| BENZENE, 1,3-DIMETHYL | 108-38-3 | 0.1 - 1% |
| MAGNESITE | 546-93-0 | 0.1 - 1% |
| BENZENE, 1,2-DIMETHYL | 95-47-6 | 0.1 - 1% |
| UREA RESIN | - | 0.1 - 1% |
| CALCIUM MAGNESIUM CARBONATE | - | 0.1 - 1% |
| CHLORITE | 1318-59-8 | 0.1 - 1% |
| N-BUTANOL (SKIN) | 71-36-3 | 0.1 - 1% |
| FORMALDEHYDE | 50-00-0 | 0 - 0.1% |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

| | |
|---|--|
| General advice | If symptoms persist, call a physician. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. |
| Inhalation | Remove to fresh air. Oxygen or artificial respiration if needed. |
| Ingestion | If swallowed, do not induce vomiting. Get medical attention immediately. |
| Self-protection of the first aider | Use personal protective equipment. Avoid contact with eyes, skin and clothing. |

Most important symptoms and effects, both acute and delayed

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media Water.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.

Hazardous combustion products Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon oxides. Hydrocarbons. Aldehydes.

Protective equipment and precautions for firefighters

Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. MAY CAUSE HEAT AND PRESSURE BUILD-UP IN CLOSED CONTAINERS. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Use personal protective equipment. Remove all sources of ignition.

Environmental Precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Remove all sources of ignition. Spills may be collected with inert, absorbent material for proper disposal. Use non-sparking tools, protective gloves, goggles and clothing, adequate ventilation, avoid the breathing of vapors and use respiratory protective devices. Transfer absorbent material to suitable containers for proper disposal.

Methods for cleaning up If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Close container after each use. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. If splashes are likely to occur, wear goggles. Wear protective gloves/clothing. Do not burn, or use a cutting torch on, the empty drum. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep away from heat, sparks and flame. Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible products Amines. Strong oxidizing agents. Bases. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------------------------|-------------------------------|--|------------------------|
| TALC (RESPIRABLE DUST) 14807-96-6 | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ | 1000 mg/m ³ |
| METHYL ISOBUTYL KETONE 108-10-1 | TWA: 20 ppm STEL: 75 ppm | TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 300 mg/m ³ TWA: 100 ppm TWA: 410 mg/m ³ | 500 ppm |
| XYLENE 1330-20-7 | TWA: 100 ppm STEL: 150 ppm | TWA: 100 ppm TWA: 435 mg/m ³ STEL: 150 ppm STEL: 655 mg/m ³ | |
| ETHYL BENZENE 100-41-4 | TWA: 20 ppm | TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³ | 800 ppm |
| BENZENE, 1,4-DIMETHYL 106-42-3 | TWA: 100 ppm STEL: 150 ppm | - | 900 ppm |

| | | | |
|-----------------------------------|-------------------------------|---|----------|
| BENZENE, 1,3-DIMETHYL 108-38-3 | TWA: 100 ppm STEL: 150 ppm | - | 900 ppm |
| BENZENE, 1,2-DIMETHYL 95-47-6 | TWA: 100 ppm STEL: 150 ppm | - | 900 ppm |
| N-BUTANOL (SKIN) 71-36-3 | TWA: 20 ppm | Skin Ceiling: 50 ppm Ceiling: 150 mg/m ³ TWA: 100 ppm TWA: 300 mg/m ³ | 1400 ppm |
| FORMALDEHYDE 50-00-0 | Ceiling: 0.3 ppm | TWA: 3 ppm STEL: 10 ppm Ceiling: 5 ppm TWA: 0.75 ppm STEL: 2 ppm | 20 ppm |

NIOSH IDLH: Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering measures Sufficient ventilation, in volume and pattern, should be provided through both local and general exhaust to keep the air contaminant concentration below current applicable OSHA Permissible Exposure Limits (PEL) and ACGIH's Threshold Limit Values (TLV). Appropriate ventilation should be employed to remove hazardous decomposition products formed during welding or flame cutting operations of surfaces coated with this product.

Individual protection measures, such as personal protective equipment

- Eye/face protection** Use chemical resistant splash type goggles. If splashes are likely to occur, wear face-shield.
- Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
- Respiratory protection** Use only with adequate ventilation. Do not breathe vapors, spray mist, or dust. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist or dust levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust created by cutting, sanding, or grinding.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|--------------------------------|--------------------------|-----------------------------|--------------------------|
| Physical state | liquid | Odor | aromatic |
| Appearance | opaque | Odor threshold | No information available |
| Color | No information available | | |
| Property | Values | Remarks | |
| pH | | No data available | |
| Melting point / freezing point | | No data available | |
| Boiling point / boiling range | 72 °C / 162 °F | | |
| Flash point | 18 °C / 64.0 °F | | |
| Evaporation rate | | Pensky Martens - Closed Cup | |
| Flammability (solid, gas) | | No data available | |
| Flammability Limit in Air | | No information available | |
| Upper flammability limit | N/A | No data available | |
| Lower flammability limit | 1.0 | | |
| Vapor pressure | | No data available | |
| Vapor density | | No data available | |
| Specific gravity | 1.28259 | g/cm ³ | |
| Water solubility | Insoluble in cold water | | |

| | | |
|---|-----------------|-------------------|
| Solubility in other solvents | | No data available |
| Partition coefficient: n-octanol/water | | No data available |
| Autoignition temperature | | No data available |
| Decomposition temperature | | No data available |
| Kinematic viscosity | | No data available |
| Dynamic viscosity | 550 centipoises | No data available |

Other Information

| | |
|---|------------------|
| Density | 10.67306 lbs/gal |
| Volatile organic compounds (VOC) content | 2.895 lbs/gal |
| Total volatiles weight percent | 27.1240 % |
| Total volatiles volume percent | 42.0115 % |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks. Amines.

Incompatible materials

Amines, Strong oxidizing agents, Bases, Acids

Hazardous decomposition products

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon oxides. Hydrocarbons. Aldehydes.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

| | |
|---------------------|---|
| Inhalation | May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. |
| Eye contact | Severely irritating to eyes. |
| Skin contact | Irritating to skin. May cause sensitization of susceptible persons. |
| Ingestion | Harmful if swallowed. |

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|----------------------|---|---|
| METHYL ISOBUTYL KETONE 108-10-1 | = 2080 mg/kg (Rat) | = 3000 mg/kg (Rabbit) | = 8.2 mg/L (Rat) 4 h |
| XYLENE 1330-20-7 | = 3500 mg/kg (Rat) | > 1700 mg/kg (Rabbit) > 4350 mg/kg (Rabbit) | = 5000 ppm (Rat) 4 h = 29.08 mg/L (Rat) 4 h |
| ETHYL BENZENE 100-41-4 | = 3500 mg/kg (Rat) | = 15400 mg/kg (Rabbit) | = 17.2 mg/L (Rat) 4 h |
| BENZENE, 1,4-DIMETHYL 106-42-3 | = 4029 mg/kg (Rat) | | = 4740 ppm (Rat) 4 h = 4550 ppm (Rat) 4 h |
| HYDROGENATED LIGHT DISTILLATE 64742-47-8 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 5.2 mg/L (Rat) 4 h |
| BENZENE, 1,3-DIMETHYL 108-38-3 | = 5 g/kg (Rat) | = 14100 µL/kg (Rabbit) | |

| | | | |
|----------------------------------|---|---|--------------------------|
| BENZENE, 1,2-DIMETHYL 95-47-6 | = 3608 mg/kg (Rat) | = 14100 mg/kg (Rabbit) | = 4330 ppm (Rat) 6 h |
| N-BUTANOL (SKIN) 71-36-3 | = 700 mg/kg (Rat) = 790 mg/kg (Rat) | = 3402 mg/kg (Rabbit) = 3400 mg/kg (Rabbit) | > 8000 ppm (Rat) 4 h |
| FORMALDEHYDE 50-00-0 | = 100 mg/kg (Rat) | = 270 mg/kg (Rabbit) | = 0.578 mg/L (Rat) 4 h |

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Skin disorders.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Sensitization May cause sensitization of susceptible persons.

Mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | ACGIH | IARC | NTP | OSHA |
|--------------------------------------|-------|----------|-------|------|
| TALC (RESPIRABLE DUST) 14807-96-6 | | Group 3 | | |
| METHYL ISOBUTYL KETONE 108-10-1 | A3 | Group 2B | | X |
| XYLENE 1330-20-7 | | Group 3 | | |
| ETHYL BENZENE 100-41-4 | A3 | Group 2B | | X |
| BENZENE, 1,4-DIMETHYL 106-42-3 | | Group 3 | | |
| BENZENE, 1,3-DIMETHYL 108-38-3 | | Group 3 | | |
| BENZENE, 1,2-DIMETHYL 95-47-6 | | Group 3 | | |
| FORMALDEHYDE 50-00-0 | A2 | Group 1 | Known | X |

Reproductive effects May damage fertility or the unborn child.

STOT - single exposure No information available

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure
Target organ effects Central nervous system, Central Vascular System (CVS), Eyes, kidney, liver, respiratory system, Skin, blood, Gastrointestinal tract.

Aspiration hazard Based on product level data, this product does not meet the requirement to be classified as an aspiration hazard. However, this product contains an ingredient that may cause aspiration if swallowed.

Acute Toxicity 0.6621 % of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

28.1846 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Component | Toxicity to algae | Toxicity to fish | Toxicity to daphnia |
|--------------------------------------|--|---|--------------------------------------|
| TALC (RESPIRABLE DUST) 14807-96-6 | | 100: 96 h Brachydanio rerio g/L LC50 semi-static | |
| METHYL ISOBUTYL KETONE 108-10-1 | 400: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 496 - 514: 96 h Pimephales promelas mg/L LC50 flow-through | 170: 48 h Daphnia magna mg/L EC50 |
| EPOXY RESIN (LER) 25085-99-8 | 11 mg/L 72 hr | 2 mg/L 96 hr Oncorhynchus mykiss | 1.8 mg/L 48h |

| | | | |
|---|---|---|--|
| <p>XYLENE 1330-20-7</p> | | <p>LC50= 13.4 mg/L Pimephales promelas 96 h LC50 2.661 - 4.093 mg/L Oncorhynchus mykiss 96 h LC50 13.5 - 17.3 mg/L Oncorhynchus mykiss 96 h LC50 13.1 - 16.5 mg/L Lepomis macrochirus 96 h LC50= 19 mg/L Lepomis macrochirus 96 h LC50 7.711 - 9.591 mg/L Lepomis macrochirus 96 h LC50 23.53 - 29.97 mg/L Pimephales promelas 96 h LC50= 780 mg/L Cyprinus carpio 96 h LC50> 780 mg/L Cyprinus carpio 96 h LC50 30.26 - 40.75 mg/L Poecilia reticulata 96 h</p> | <p>EC50 = 3.82 mg/L 48 h LC50 = 0.6 mg/L 48 h</p> |
| <p>ETHYL BENZENE 100-41-4</p> | <p>4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static</p> | <p>11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 32: 96 h Lepomis macrochirus mg/L LC50 static 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 9.6: 96 h Poecilia reticulata mg/L LC50 static</p> | <p>1.8 - 2.4: 48 h Daphnia magna mg/L EC50</p> |
| <p>BENZENE, 1,4-DIMETHYL 106-42-3</p> | <p>3.2: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 105.1: 3 h Chlorella vulgaris mg/L EC50</p> | <p>7.2 - 9.9: 96 h Pimephales promelas mg/L LC50 static 2.6: 96 h Oncorhynchus mykiss mg/L LC50 2.6: 96 h Oncorhynchus mykiss mg/L LC50 static 8.8: 96 h Poecilia reticulata mg/L LC50 semi-static</p> | <p>3.55 - 6.31: 48 h Daphnia magna mg/L EC50 Static</p> |
| <p>HYDROGENATED LIGHT DISTILLATE 64742-47-8</p> | | <p>45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static</p> | <p>4720: 96 h Den-dronereides heteropoda mg/L LC50</p> |
| <p>BENZENE, 1,3-DIMETHYL 108-38-3</p> | <p>4.9: 72 h Pseudokirchneriella subcapitata mg/L EC50 static</p> | <p>14.3 - 18: 96 h Pimephales promelas mg/L LC50 flow-through 8.4: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 12.9: 96 h Poecilia reticulata mg/L LC50 semi-static</p> | <p>2.81 - 5.0: 48 h Daphnia magna mg/L EC50 Static</p> |
| <p>BENZENE, 1,2-DIMETHYL 95-47-6</p> | <p>4.7: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 4.2: 192 h Pseudokirchneriella subcapitata mg/L EC50</p> | <p>11.6 - 22.4: 96 h Pimephales promelas mg/L LC50 flow-through 11.6 - 22.4: 96 h Lepomis macrochirus mg/L LC50 flow-through 5.59 - 11.6: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 12: 96 h Poecilia reticulata mg/L LC50</p> | <p>3.2: 48 h Daphnia magna mg/L EC50 2.61 - 5.59: 48 h Daphnia magna mg/L EC50 Flow through 0.78 - 2.51: 48 h Daphnia magna mg/L EC50 Static</p> |
| <p>N-BUTANOL (SKIN) 71-36-3</p> | <p>500: 96 h Desmodesmus subspicatus mg/L EC50 500: 72 h Desmodesmus subspicatus mg/L EC50</p> | <p>1730 - 1910: 96 h Pimephales promelas mg/L LC50 static 1740: 96 h Pimephales promelas mg/L LC50 flow-through 100000 - 500000: 96 h Lepomis macrochirus µg/L LC50 static 1910000: 96 h Pimephales promelas µg/L LC50 static</p> | <p>1983: 48 h Daphnia magna mg/L EC50 1897 - 2072: 48 h Daphnia magna mg/L EC50 Static</p> |
| <p>FORMALDEHYDE 50-00-0</p> | | <p>22.6 - 25.7: 96 h Pimephales promelas mg/L LC50 flow-through 1510: 96 h Lepomis macrochirus µg/L LC50 static 41: 96 h Brachydanio rerio mg/L LC50 static 0.032 - 0.226: 96 h Oncorhynchus mykiss mL/L LC50 flow-through 100 - 136: 96 h Oncorhynchus mykiss mg/L LC50 static 23.2 - 29.7: 96 h Pimephales promelas mg/L LC50 static</p> | <p>2: 48 h Daphnia magna mg/L LC50 11.3 - 18: 48 h Daphnia magna mg/L EC50 Static</p> |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in Environmental Media

| Component | log Pow |
|------------------------------------|---------|
| METHYL ISOBUTYL KETONE 108-10-1 | 1.19 |
| XYLENE 1330-20-7 | 2.77 |
| ETHYL BENZENE 100-41-4 | 3.118 |
| BENZENE, 1,4-DIMETHYL 106-42-3 | 3.15 |
| BENZENE, 1,3-DIMETHYL 108-38-3 | 3.2 |
| BENZENE, 1,2-DIMETHYL 95-47-6 | 3.12 |
| N-BUTANOL (SKIN) 71-36-3 | 0.785 |
| FORMALDEHYDE 50-00-0 | 0.35 |

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal Methods**

Keep container tightly closed. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

| Component | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|------------------------------------|------|---|------------------------|------------------------|
| METHYL ISOBUTYL KETONE 108-10-1 | | Included in waste stream: F039 | | U161 |
| XYLENE 1330-20-7 | | Included in waste stream: F039 | | U239 |
| ETHYL BENZENE 100-41-4 | | Included in waste stream: F039 | | |
| N-BUTANOL (SKIN) 71-36-3 | | Included in waste stream: F039 | | U031 |
| FORMALDEHYDE 50-00-0 | U122 | Included in waste streams: K009, K010, K038, K040, K156, K157 | | U122 |

California Hazardous Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste

| Component | CAWAST |
|-----------------------------|--------------------|
| XYLENE 1330-20-7 | Toxic Ignitable |
| ETHYL BENZENE 100-41-4 | Toxic Ignitable |
| N-BUTANOL (SKIN) 71-36-3 | Toxic |

| | |
|-------------------------|--------------------|
| FORMALDEHYDE 50-00-0 | Toxic Ignitable |
|-------------------------|--------------------|

14. TRANSPORT INFORMATION

DOT

UN/ID no. 1263
 Proper Shipping Name paint
 Hazard Class 3
 Packing Group III
 Emergency Response Guide Number 128

IATA

UN/ID no. 1263
 Proper Shipping Name paint
 Hazard Class 3
 Packing Group III
 ERG Code 366

Additional information

Call TNE MEC Traffic Department - 816-474-3400 for additional information or other modes of Transportation.

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
 DSL/NDSL Complies
 EINECS/ELINCS Does not comply
 ENCS Does not comply
 IECSC Complies
 KECL Complies
 PICCS Complies
 AICS Does not comply

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

| Component | HAPS Data |
|------------------------|-----------|
| METHYL ISOBUTYL KETONE | |
| XYLENE | |
| ETHYL BENZENE | |
| BENZENE, 1,4-DIMETHYL | |
| BENZENE, 1,3-DIMETHYL | |
| BENZENE, 1,2-DIMETHYL | |
| FORMALDEHYDE | |

United States of America

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

| Component | SARA 313 - Threshold Values |
|-----------|-----------------------------|
| | |

| | |
|-----------------------------------|-----|
| METHYL ISOBUTYL KETONE - 108-10-1 | 1.0 |
| XYLENE - 1330-20-7 | 1.0 |
| ETHYL BENZENE - 100-41-4 | 0.1 |
| BENZENE, 1,4-DIMETHYL - 106-42-3 | 1.0 |
| BENZENE, 1,3-DIMETHYL - 108-38-3 | 1.0 |
| BENZENE, 1,2-DIMETHYL - 95-47-6 | 1.0 |
| N-BUTANOL (SKIN) - 71-36-3 | 1.0 |
| FORMALDEHYDE - 50-00-0 | 0.1 |

SARA 311/312 Hazardous

Categorization

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

| Component | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-----------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| XYLENE 1330-20-7 | 100 lb | | | X |
| ETHYL BENZENE 100-41-4 | 1000 lb | X | X | X |
| BENZENE, 1,4-DIMETHYL 106-42-3 | | | | X |
| BENZENE, 1,3-DIMETHYL 108-38-3 | | | | X |
| BENZENE, 1,2-DIMETHYL 95-47-6 | | | | X |
| FORMALDEHYDE 50-00-0 | 100 lb | | | X |

CERCLA

| Component | Hazardous Substances RQs | CERCLA EHS RQs | RQ |
|------------------------------------|--------------------------|----------------|--|
| METHYL ISOBUTYL KETONE 108-10-1 | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| XYLENE 1330-20-7 | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |
| ETHYL BENZENE 100-41-4 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |
| BENZENE, 1,4-DIMETHYL 106-42-3 | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |
| BENZENE, 1,3-DIMETHYL 108-38-3 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |
| BENZENE, 1,2-DIMETHYL 95-47-6 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |
| N-BUTANOL (SKIN) 71-36-3 | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| FORMALDEHYDE 50-00-0 | 100 lb | 100 lb | RQ 100 lb final RQ RQ 45.4 kg final RQ |

United States of America

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer

| Component | California Prop. 65 |
|-----------------------------------|-----------------------------|
| METHYL ISOBUTYL KETONE - 108-10-1 | Carcinogen Developmental |
| ETHYL BENZENE - 100-41-4 | Carcinogen |
| FORMALDEHYDE - 50-00-0 | Carcinogen |

California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

State Right-to-Know

| Component | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------------|------------|---------------|--------------|
| TALC (RESPIRABLE DUST) 14807-96-6 | X | X | X |
| METHYL ISOBUTYL KETONE 108-10-1 | X | X | X |
| XYLENE 1330-20-7 | X | X | X |
| ETHYL BENZENE 100-41-4 | X | X | X |
| BENZENE, 1,4-DIMETHYL 106-42-3 | X | X | X |
| BENZENE, 1,3-DIMETHYL 108-38-3 | X | X | X |
| MAGNESITE 546-93-0 | | X | |
| BENZENE, 1,2-DIMETHYL 95-47-6 | X | X | X |
| N-BUTANOL (SKIN) 71-36-3 | X | X | X |
| FORMALDEHYDE 50-00-0 | X | X | X |

16. OTHER INFORMATION

NFPA Health 2 Flammability 3 Instability 1 Physical hazard *
HMIS (Hazardous Material Information System) Health 2* Flammability 3 Reactivity 1

Prepared By Tnemec Regulatory Dept: 816-474-3400
Revision Date 15-Oct-2015
Revision Summary
 9 1 4 5 7 10 8 11 14

Disclaimer

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of SDS