



Safety Data Sheet

Issue Date 07-Jul-2015

Revision Date 07-Jul-2015

Revision Number 4

1. IDENTIFICATION

Product identifier

Product Code S206-11WHA
Product Name SUB-FLEX EP WHITE

Other means of identification

Common Name SERIES 206, PART A

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 1 |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 1 |

Label elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Causes severe skin burns and eye damage
May cause an allergic skin reaction
Suspected of causing cancer
Causes damage to organs through prolonged or repeated exposure
May be corrosive to metals

**Appearance** opaque**Physical state** liquid**Odor** Slight**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
 Do not breathe dust/fume/gas/mist/vapors/spray
 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 eat, drink or smoke when using this product

Response

Immediately call a POISON CENTER or doctor/physician
 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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 If skin irritation or rash occurs: Get medical advice/attention
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

Store locked up
 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

57.81418049 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight-% |
|-------------------------------|------------|----------|
| EPOXY RESIN (LER) | 25085-99-8 | 30 - 60% |
| PROPIETARYPROPRIETARY | - | 10 - 30% |
| TITANIUM DIOXIDE (TOTAL DUST) | 13463-67-7 | 10 - 30% |
| ALKYL GLYCIDYL ETHER | 68609-97-2 | 10 - 30% |
| EPOXY RESIN (LER) | 25068-38-6 | 1 - 10% |
| ALUMINUM HYDROXIDE | 21645-51-2 | 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. Call a physician immediately. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately. |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. |
| 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 Do not use a solid water stream as it may scatter and spread fire.

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. Oxides of nitrogen. Aldehydes. Hydrogen cyanide.

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.

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 container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible products

Acids. Bases. Amines. Strong oxidizing agents. Hypochlorites. Peroxides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------------------------------|---------------------------|--------------------------------------------------------|------------------------|
| 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 |
| ALUMINUM HYDROXIDE 21645-51-2 | TWA: 1 mg/m ³ | - | |
| 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**

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 | Slight |
| Appearance | opaque | Odor threshold | No information available |
| Color | No information available | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> |
|-----------------------------------------------|-------------------------|--------------------------|
| pH | | No data available |
| Melting point / freezing point | | No data available |
| Boiling point / boiling range | | No information available |
| Flash point | | No information available |
| Evaporation rate | | No data available |
| Flammability (solid, gas) | | No information available |
| Flammability Limit in Air | | No data available |
| Upper flammability limit | N/A | |
| Lower flammability limit | N/A | |
| Vapor pressure | | No data available |
| Vapor density | | No data available |
| Specific gravity | 1.2165 | g/cm3 |
| 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 | 2930 centipoises | approx |

Other Information

| | |
|-------------------------------------------------|------------------|
| Density | 10.14565 lbs/gal |
| Volatile organic compounds (VOC) content | 0.0345 lbs/gal |
| Total volatiles weight percent | 0.34 % |
| Total volatiles volume percent | 0.51 % |

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

Acids, Bases, Amines, Strong oxidizing agents, Hypochlorites, Peroxides

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. Oxides of nitrogen. Hydrogen cyanide. 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. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Eye contact | Causes serious eye damage. |
| Skin contact | Causes severe skin burns. May cause sensitization by skin contact. |
| Ingestion | Harmful if swallowed. |

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------------------------------|-----------------------|-------------|-----------------|
| TITANIUM DIOXIDE (TOTAL DUST) 13463-67-7 | > 10000 mg/kg (Rat) | | |
| ALKYL GLYCIDYL ETHER 68609-97-2 | = 17100 mg/kg (Rat) | | |
| EPOXY RESIN (LER) 25068-38-6 | = 11400 mg/kg (Rat) | | |
| ALUMINUM HYDROXIDE 21645-51-2 | > 5000 mg/kg (Rat) | | |

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Skin disorders. Irritating to eyes and skin.

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

Corrosivity Causes severe damage to eyes and skin. May be corrosive to metals.
Chronic Toxicity May cause cancer. Skin sensitizer.
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 |

Reproductive effects No information available.
STOT - single exposure No information available
STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure
Target organ effects Central Vascular System (CVS), Eyes, Lungs, respiratory system, Skin.
Aspiration hazard No information available.

Acute Toxicity 57.81418049 % of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

0.97401 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Component | Toxicity to algae | Toxicity to fish | Toxicity to daphnia |
|---------------------------------|-------------------|-----------------------------------------|---------------------|
| EPOXY RESIN (LER) 25085-99-8 | 11 mg/L 72 hr | 2 mg/L 96 hr <i>Oncorhynchus mykiss</i> | 1.8 mg/L 48h |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in Environmental Media

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.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name paint in oil Not regulated

IATA

Proper Shipping Name Not regulated

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 | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Does not comply |
| AICS | Complies |

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):

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 40 of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazardous Categorization

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

CERCLA

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 |

California SCAQMD Rule 443

Does Not Contain Photochemically Reactive Solvent

State Right-to-Know

| Component | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------------------|------------|---------------|--------------|
| TITANIUM DIOXIDE (TOTAL DUST) 13463-67-7 | X | X | X |
| ZIRCONIUM OXIDE 1314-23-4 | | X | |

16. OTHER INFORMATION

| | | | | |
|-----------------------------------------------------|-----------|----------------|---------------|-------------------|
| NFPA | Health 3 | Flammability 0 | Instability 0 | Physical hazard * |
| HMIS (Hazardous Material Information System) | Health 3* | Flammability 0 | Reactivity 0 | |

Prepared By Tnemec Regulatory Dept: 816-474-3400
 Revision Date 07-Jul-2015
 Revision Summary
 9 4 5 7 10 8 11 14 15 1

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 MSDS



Safety Data Sheet

Issue Date 23-Sep-2015

Revision Date 23-Sep-2015

Revision Number 7

1. IDENTIFICATION

Product identifier

Product Code S206-0206B
Product Name SUB-FLEX EP CONVERTER

Other means of identification

Common Name SERIES 206 OR 206SC, PART B
UN/ID no. 3066

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)

| | |
|----------------------------------------------------|---------------------------|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Dermal | Category 4 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Respiratory sensitization | Category 1 |
| Skin sensitization | Category 1 |
| Reproductive Toxicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 1 |

Label elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Harmful if swallowed
 Harmful in contact with skin
 Causes severe skin burns and eye damage
 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 May cause an allergic skin reaction
 Suspected of damaging fertility or the unborn child
 Causes damage to organs through prolonged or repeated exposure
 May be corrosive to metals

**Appearance** opaque**Physical state** liquid**Odor** amine**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
 Do not breathe dust/fume/gas/mist/vapors/spray
 In case of inadequate ventilation wear respiratory protection
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves

Response

Immediately call a POISON CENTER or doctor/physician
 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
 Call a POISON CENTER or doctor/physician if you feel unwell
 Wash contaminated clothing before reuse
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 If skin irritation or rash occurs: Get medical advice/attention
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth
 Do NOT induce vomiting

Storage

Store locked up
 Keep away from children

Disposal

Dispose of contents/container to an approved waste disposal plant

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

Acute Toxicity 5.43937 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight-% |
|--------------------------|------------|----------|
| NONYLPHENOL | 84852-15-3 | 30 - 60% |
| MODIFIED ALIPHATIC AMINE | 9046-10-0 | 30 - 60% |
| MODIFIED ALIPHATIC AMINE | 140-31-8 | 10 - 30% |
| BENZYL ALCOHOL | 100-51-6 | 1 - 10% |
| AMINE POLYMER | - | 1 - 10% |
| MODIFIED ALIPHATIC AMINE | 1761-71-3 | 1 - 10% |

*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. Call a physician immediately. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately. |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. |
| 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 Do not use a solid water stream as it may scatter and spread fire.

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. Aldehydes. Carbon oxides. Hydrocarbons. Oxides of nitrogen. Ammonia. Nitric acid, nitrosamine. Ketones. Phenolics.

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.

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 container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible products Water, alcohols, amines, strong bases, metal components, surface active materials. Acids. Strong oxidizing agents. Hypochlorites. Nitrous acid and other nitrosating agents. Peroxides. Hydroxyl Compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

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 | amine |
| Appearance | opaque | Odor threshold | No information available |
| Color | No information available | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> |
|----------------------------------------|--------------------------|--------------------------|
| pH | | No data available |
| Melting point / freezing point | | No data available |
| Boiling point / boiling range | 72 °C / 162 °F | |
| Flash point | No information available | |
| Evaporation rate | | No data available |
| Flammability (solid, gas) | | No information available |
| Flammability Limit in Air | | No data available |
| Upper flammability limit | N/A | |
| Lower flammability limit | N/A | |
| Vapor pressure | | No data available |
| Vapor density | | No data available |
| Specific gravity | 0.96541 | g/cm3 |
| 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 | 115 centipoises | approx |

Other Information

| | |
|-------------------------------------------------|-----------------|
| Density | 8.05155 lbs/gal |
| Volatile organic compounds (VOC) content | 0.09742 lbs/gal |
| Total volatiles weight percent | 1.21 % |
| Total volatiles volume percent | 1.23 % |

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

Water, alcohols, amines, strong bases, metal components, surface active materials, Acids, Strong oxidizing agents, Hypochlorites, Nitrous acid and other nitrosating agents, Peroxides, Hydroxyl Compounds

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. Nitric acid, nitrosamine. Oxides of nitrogen. Aldehydes. Ammonia. Ketones. Phenolics.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | May cause irritation. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. |
| Eye contact | Causes serious eye damage. |
| Skin contact | Causes severe skin burns. May cause sensitization by skin contact. |
| Ingestion | Harmful if swallowed. |

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------------------------|----------------------|-------------------------|------------------------|
| NONYLPHENOL 84852-15-3 | = 1300 mg/kg (Rat) | = 2031 mg/kg (Rabbit) | |
| MODIFIED ALIPHATIC AMINE 9046-10-0 | = 242 mg/kg (Rat) | = 360 mg/kg (Rabbit) | |
| MODIFIED ALIPHATIC AMINE 140-31-8 | = 2140 µL/kg (Rat) | = 880 µL/kg (Rabbit) | |
| BENZYL ALCOHOL 100-51-6 | = 1230 mg/kg (Rat) | = 2 g/kg (Rabbit) | = 8.8 mg/L (Rat) 4 h |
| MODIFIED ALIPHATIC AMINE 1761-71-3 | = 1000 mg/kg (Rat) | | |

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Skin disorders. Irritating to eyes and skin. Respiratory disorders.

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

Corrosivity Causes severe damage to eyes and skin. May be corrosive to metals.
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. Substances known to impair fertility. May cause sensitization by inhalation and skin contact.
Sensitization May cause sensitization of susceptible persons.
Mutagenicity No information available.
Carcinogenicity There are no known carcinogenic chemicals in this product.
Reproductive effects Suspected of damaging fertility or the unborn child.
STOT - single exposure No information available
STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure, kidney, liver, Respiratory system, EYES, Skin, Central Nervous System (CNS), Gastrointestinal tract (GI)
Aspiration hazard No information available.
Acute Toxicity 5.43937 % of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

36.67891 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Component | Toxicity to algae | Toxicity to fish | Toxicity to daphnia |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| NONYLPHENOL 84852-15-3 | 0.36 - 0.48: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.16 - 0.72: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.3: 72 h Desmodesmus subspicatus mg/L EC50 | 0.135: 96 h Pimephales promelas mg/L LC50 flow-through 0.1351: 96 h Lepomis macrochirus mg/L LC50 flow-through | 0.14: 48 h Daphnia magna mg/L EC50 |

| | | | |
|---------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| MODIFIED ALIPHATIC AMINE 140-31-8 | 495: 72 h Pseudokirchneriella subcapitata mg/L EC50 | 1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static | 32: 48 h Daphnia magna mg/L EC50 |
| BENZYL ALCOHOL 100-51-6 | 35: 3 h Anabaena variabilis mg/L EC50 | 460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static | 23: 48 h water flea mg/L EC50 |
| MODIFIED ALIPHATIC AMINE 1761-71-3 | | 46 - 100: 96 h Leuciscus idus mg/L LC50 static | |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in Environmental Media

| Component | log Pow |
|---------------------------------------|---------|
| NONYLPHENOL 84852-15-3 | 5.4 |
| MODIFIED ALIPHATIC AMINE 140-31-8 | -1.48 |
| BENZYL ALCOHOL 100-51-6 | 1.1 |
| MODIFIED ALIPHATIC AMINE 1761-71-3 | 2.03 |

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.

14. TRANSPORT INFORMATION**DOT**

UN/ID no. 3066
 Proper Shipping Name paint
 Hazard Class 8
 Packing Group II
 Emergency Response Guide Number 153

IATA

UN/ID no. 3066
 Proper Shipping Name paint
 Hazard Class 8
 Packing Group II
 ERG Code 855

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 | Complies |

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

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 |
|--------------------------|-----------------------------|
| NONYLPHENOL - 84852-15-3 | 1.0 |

SARA 311/312 Hazardous**Categorization**

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

CERCLA**United States of America****California Prop. 65**

This product does not contain any Proposition 65 chemicals

California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

State Right-to-Know

| Component | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------------|------------|---------------|--------------|
| MODIFIED ALIPHATIC AMINE 140-31-8 | X | X | X |
| BENZYL ALCOHOL 100-51-6 | | X | X |

16. OTHER INFORMATION

| | | | | |
|-----------------------------------------------------|----------|----------------|---------------|-------------------|
| NFPA | Health 3 | Flammability 0 | Instability 0 | Physical hazard - |
| HMIS (Hazardous Material Information System) | Health 3 | Flammability 0 | Reactivity 0 | |

Prepared By Tnemec Regulatory Dept: 816-474-3400
Revision Date 23-Sep-2015

Revision Summary
9 4 5 7 10 8 11 14 15 1

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