



Safety Data Sheet

Issue Date 29-Oct-2018

Revision Date 29-Oct-2018

Revision Number 2

1. IDENTIFICATION

Product identifier

Product Code F044-0809
Product Name SMOOTHING AGENT

Other means of identification

Common Name SERIES 44-809
UN/ID no. 2055
Synonyms None

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 816-474-3400
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 - Inhalation (Dusts/Mists) | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Carcinogenicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Flammable Liquids | Category 3 |

Label elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer
May cause respiratory irritation. May cause drowsiness or dizziness
Causes damage to organs through prolonged or repeated exposure
Flammable liquid and vapor

**Appearance** clear Liquid**Physical state** liquid**Odor** Strong 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
 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 only non-sparking tools
 Take precautionary measures against static discharge
 Use explosion-proof electrical/ventilating/lighting/mixing/equipment

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 ON SKIN: Gently wash with plenty of soap and water
 If skin irritation occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell
 IF SWALLOWED
 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
 Water spray (fog)

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)

Not applicable

Other information

Very toxic to aquatic life with long lasting effects

SEE SAFETY DATA SHEET

Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|---------------|--------|----------|
|---------------|--------|----------|

| | | |
|---------------|----------|-----------|
| STYRENE | 100-42-5 | 60 - 100% |
| ETHYL BENZENE | 100-41-4 | 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 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If symptoms persist, call a physician. |
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician. |
| Inhalation | Remove to fresh air. Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician. |
| Ingestion | Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Rinse mouth. Never give anything by mouth to an unconscious person. |
| Self-protection of the first aider | Remove all sources of ignition. Use personal protective equipment. Avoid contact with eyes, skin and clothing. |

Most important symptoms and effects, both acute and delayed

Most important symptoms and effects May cause redness and tearing of the eyes. Coughing and / or wheezing. May cause skin and eye irritation. May cause drowsiness or dizziness.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide. Foam. Water spray. Cover with dry sand/earth.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Flammable liquid Thermal decomposition can lead to release of irritating gases and vapours

Hazardous combustion products Carbon monoxide. Carbon dioxide.

Impact sensitivity No.

Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Burning produces obnoxious and toxic fumes. Avoid run off to waterways and sewers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment. Keep people away from and upwind of spill/leak.

Environmental Precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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 Pick up and transfer to properly labelled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Use with local exhaust ventilation. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible products Incompatible with strong acids and bases. Incompatible with oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------------|-----------------------------|---|--------------|
| STYRENE 100-42-5 | TWA: 20 ppm STEL: 40 ppm | TWA: 50 ppm TWA: 215 mg/m ³ STEL: 100 ppm STEL: 425 mg/m ³ TWA: 100 ppm Ceiling: 200 ppm | IDLH 700 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 |

Legend

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. Provide readily accessible eye wash stations and safety showers.

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|---|
| Eye/face protection | Tightly fitting safety 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 | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust created by cutting, sanding, or grinding. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|--------------|-----------------------|-----------------|
| Physical state | liquid | Odor | Strong aromatic |
| Appearance | clear Liquid | Odor threshold | <1 ppm |
| Color | amber | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> |
|---|--------------------------|-----------------------------|
| pH | | No data available |
| Melting point / freezing point | No data available | |
| Boiling point / boiling range | > 145 °C / 293 °F | |
| Flash point | 31.11 °C / 88 °F | Pensky Martens - Closed Cup |
| Evaporation rate | < 1 | |
| Flammability (solid, gas) | No data available | |
| Flammability Limit in Air | | |
| Upper flammability limit | 1.1% | |
| Lower flammability limit | 6.6% | |
| Vapor pressure | 0.57 kPa @20 °C | |
| Vapor density | >1 | |
| Specific gravity | 0.91 | 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 | <50 mm2/s | @ 40°C |
| Dynamic viscosity | | No data available |
| Explosive properties | Not an explosive | |
| Oxidizing properties | No information available | |

Other Information

| | |
|---|--------------------------|
| Density | 7.5800 lbs/gal |
| Volatile organic compounds (VOC) content | 7.580 lbs/gal |
| Total volatiles weight percent | 100.00 % |
| Total volatiles volume percent | 100.00 % |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization may occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Incompatible with strong acids and bases, Incompatible with oxidizing agents

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 dioxide. Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. May cause irritation of respiratory tract. Harmful if inhaled.

Eye contact Irritating to eyes.

Skin contact Irritating to skin.

Ingestion Harmful if swallowed.

| Chemical name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------------|----------------------|--------------------------|-------------------------|
| STYRENE 100-42-5 | = 1000 mg/kg (Rat) | - | = 11.7 mg/L (Rat) 4 h |
| ETHYL BENZENE 100-41-4 | = 3500 mg/kg (Rat) | = 15400 mg/kg (Rabbit) | = 17.4 mg/L (Rat) 4 h |

Information on toxicological effects

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

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

Chronic Toxicity Avoid repeated exposure. May cause adverse liver effects. Contains a known or suspected carcinogen.

Sensitization No information available.

Mutagenicity No information available.

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

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---------------------------|-------|----------|------------------------|------|
| STYRENE 100-42-5 | | Group 2A | Reasonably Anticipated | X |
| ETHYL BENZENE 100-41-4 | A3 | Group 2B | - | X |

Legend:

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)
X - Present

| | |
|---|--|
| Reproductive effects | No information available. |
| STOT - single exposure | Not classified |
| STOT - repeated exposure | Causes damage to organs through prolonged or repeated exposure |
| Target organ effects | respiratory system, Central nervous system, liver, Eyes, Lungs, Reproductive System, Skin, kidney. |
| Aspiration hazard | No information available. |
| Acute Toxicity | 0 % of the mixture consists of ingredient(s) of unknown toxicity. |
| The following values are calculated based on chapter 3.1 of the GHS document . | |
| ATEmix (oral) | 1250 mg/kg |
| ATEmix (inhalation-dust/mist) | 1.93 mg/l |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia |
|---------------------------|--|--|---|
| STYRENE 100-42-5 | 1.4: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.72: 96 h Pseudokirchneriella subcapitata mg/L EC50 0.46 - 4.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.15 - 3.2: 96 h Pseudokirchneriella subcapitata mg/L EC50 static | 3.24 - 4.99: 96 h Pimephales promelas mg/L LC50 flow-through 19.03 - 33.53: 96 h Lepomis macrochirus mg/L LC50 static 6.75 - 14.5: 96 h Pimephales promelas mg/L LC50 static 58.75 - 95.32: 96 h Poecilia reticulata mg/L LC50 static | 3.3 - 7.4: 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 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 32: 96 h Lepomis macrochirus mg/L LC50 static 9.6: 96 h Poecilia reticulata mg/L LC50 static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static | 1.8 - 2.4: 48 h Daphnia magna mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in Environmental Media

| Chemical name | log Pow |
|---------------------------|---------|
| STYRENE 100-42-5 | 2.95 |
| ETHYL BENZENE 100-41-4 | 3.118 |

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods

It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

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

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---------------------------|------|-----------------------------------|------------------------|------------------------|
| ETHYL BENZENE 100-41-4 | | Included in waste stream: F039 | | |

California Hazardous Waste Status

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

| Chemical name | CAWAST |
|---------------------------|--------------------|
| STYRENE 100-42-5 | Toxic Ignitable |
| ETHYL BENZENE 100-41-4 | Toxic Ignitable |

14. TRANSPORT INFORMATION

DOT

UN/ID no. 2055
Proper Shipping Name styrene monomer, stabilized
Hazard Class 3
Packing Group III
Emergency Response Guide Number 128P

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 Complies
ENCS Complies
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

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

| Chemical name | HAPS Data |
|---------------|-----------|
| STYRENE | |
| ETHYL BENZENE | |

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:

| Chemical name | SARA 313 - Threshold Values |
|--------------------------|-----------------------------|
| STYRENE - 100-42-5 | 0.1 |
| ETHYL BENZENE - 100-41-4 | 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 |

Clean Water Act

The following chemicals are listed under the Clean Water Act:

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| STYRENE 100-42-5 | 1000 lb | | | X |
| ETHYL BENZENE 100-41-4 | 1000 lb | X | X | X |

CERCLA

| Chemical name | Hazardous Substances RQs | CERCLA EHS RQs | RQ |
|---------------------------|--------------------------|----------------|---|
| STYRENE 100-42-5 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |
| ETHYL BENZENE 100-41-4 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |

California Prop. 65

WARNING: This product can expose you to the following chemicals which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| Chemical name | California Prop. 65 |
|--------------------------|---------------------|
| STYRENE - 100-42-5 | Carcinogen |
| ETHYL BENZENE - 100-41-4 | Carcinogen |

California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

State Right-to-Know

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------------------|------------|---------------|--------------|
| STYRENE 100-42-5 | X | X | X |
| ETHYL BENZENE 100-41-4 | X | X | X |

16. OTHER INFORMATION

| | | | | |
|---|-----------|----------------|---------------|-------------------|
| NFPA | Health 2 | Flammability 3 | Instability 0 | Physical hazard - |
| HMIS (Hazardous Material Information System) | Health 2* | Flammability 3 | Reactivity 0 | |

Chronic Hazard Star Legend

* = Chronic Health Hazard

Prepared By Tnemec Regulatory Dept: 816-474-3400
Revision Date 29-Oct-2018

Revision Summary
 1 9 4 5 6 7 10 8 11 13 14 15

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