



Safety Data Sheet

Issue Date: 13-Jul-2012

Revision Date: 13-Jan-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Touch&Bond™ Liquid

Other means of identification

SDS # S281

UN/ID No UN1090

Recommended use of the chemical and restrictions on use

Recommended Use Dentin/Enamel Bonding System and Dentinal Desensitizer.

Details of the supplier of the safety data sheet

Supplier Address

Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717

Emergency Telephone Number

Company Phone Number (631) 249-1134
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Translucent liquid

Physical State Liquid

Odor Mint-like

Classification

| | |
|--------------------------------------------------|------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable Liquids | Category 2 |

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

Signal Word

Danger

Hazard Statements

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause drowsiness or dizziness
Highly flammable liquid and vapor

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace
 Use only outdoors or in a well-ventilated area
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Get medical attention
 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
 Get medical advice / attention
 IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|-----------------------------|----------|-------------|
| Acetone | 67-64-1 | Proprietary |
| Methyl methacrylate | 80-62-6 | Proprietary |
| 2-Hydroxyethyl methacrylate | 868-77-9 | Proprietary |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention. |
| Skin Contact | 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. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Ingestion | Promptly drink several glasses of water or milk to dilute. Get medical attention. |

Most important symptoms and effects

| | |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | May cause serious eye irritation. May cause skin irritation or redness. May cause an allergic skin reaction. Inhalation of high concentration may cause central nervous system effects characterized by headache, dizziness, unconsciousness, and coma. May cause respiratory tract irritation. Ingestion may cause irritation of the digestive tract. May cause nausea and/or vomiting. May cause central nervous system depression with symptoms including headache, excitement, fatigue, nausea, vomiting, stupor, and coma. |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

For small fires, use dry chemical, carbon dioxide (CO₂), water spray, or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor. Combustion products may be toxic.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO₂).

Sensitivity to Static Discharge Take precautionary measures against static discharge.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precautions | Use personal protection recommended in Section 8. |
| Environmental Precautions | Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. |

Methods and material for containment and cleaning up

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Methods for Containment | Remove all ignition sources and ventilate the area of leak or spill. |
| Methods for Clean-Up | Contain and collect with an inert absorbent and place into an appropriate container for disposal. Flush spill area with water. |

7. HANDLING AND STORAGE**Precautions for safe handling**

| | |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on Safe Handling | Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Protect container from physical damage. |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Conditions for safe storage, including any incompatibilities

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage Conditions | Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Store between 5°C and 30°C (41°F and 86°F). Do NOT freeze. Store away from direct sunlight. Keep away from sources of ignition. Do NOT store under pure nitrogen or oxygen-free gas. |
| Incompatible Materials | Radical initiators such as peroxide, persulfate, amine, strong acids, oxidizing agents, chloroform, and alkalis. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Acetone 67-64-1 | STEL: 750 ppm TWA: 500 ppm | TWA: 1000 ppm TWA: 2400 mg/m ³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 2400 mg/m ³ The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm | IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³ |
| Methyl methacrylate 80-62-6 | STEL: 100 ppm TWA: 50 ppm | TWA: 100 ppm TWA: 410 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m ³ | IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m ³ |

Appropriate engineering controls

| | |
|-----------------------------|---------------------------------------------------------------------------------------|
| Engineering Controls | Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers. |
|-----------------------------|---------------------------------------------------------------------------------------|

Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Safety glasses.
- Skin and Body Protection** Rubber or PVC gloves.
- Respiratory Protection** No protection is ordinarily required under normal conditions of use and with adequate ventilation. If exposure limit is exceeded, a vapor respirator should be worn.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|--------------------|-----------------------|----------------|
| Physical State | Liquid | Odor | Mint-like |
| Appearance | Translucent liquid | Odor Threshold | Not determined |
| Color | Translucent | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-------------------------------------|-----------------------|-----------------------------------|
| pH | 1.9 | |
| Melting Point/Freezing Point | Not determined | |
| Boiling Point/Boiling Range | 56 °C / 133 °F | (acetone) |
| Flash Point | -18 °C / -0.4 °F | (based on acetone) Tag Closed Cup |
| Evaporation Rate | Not determined | |
| Flammability (Solid, Gas) | Liquid-Not applicable | |
| Upper Flammability Limits | 13% (acetone) | |
| Lower Flammability Limit | 2% (acetone) | |
| Vapor Pressure | 180 mm Hg | @ 20°C (68°F) |
| Vapor Density | Not determined | |
| Specific Gravity | approx. 1 | (Water = 1) |
| Water Solubility | Not established | |
| Solubility in other solvents | Not determined | |
| Partition Coefficient | Not determined | |
| Auto-ignition Temperature | 420 °C / 788 °F | (methyl methacrylate) |
| Decomposition Temperature | Not determined | |
| Kinematic Viscosity | Not determined | |
| Dynamic Viscosity | Not determined | |
| Explosive Properties | Not determined | |
| Oxidizing Properties | Not determined | |

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Polymerizable with light or heat.

Possibility of Hazardous Reactions

None under normal processing.

- Hazardous Polymerization** May occur, especially when irradiated, heated, or catalyzed.

Conditions to Avoid

Keep separated from incompatible substances. Avoid heat beyond 30°C (86°F), temperatures below 5°C (41°F), high humidity, direct sunlight, and ignition sources. Keep out of reach of children.

Incompatible Materials

Radical initiators such as peroxide, persulfate, amine, strong acids, oxidizing agents, chloroform, and alkalis.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

| | |
|---------------------|--------------------------------------------------------------|
| Eye Contact | Causes serious eye irritation. |
| Skin Contact | Causes skin irritation. May cause an allergic skin reaction. |
| Inhalation | May cause drowsiness or dizziness. |
| Ingestion | May be harmful if swallowed. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------------------------------------------------------|----------------------|-------------------------|-------------------------------------------------|
| Acetone 67-64-1 | = 5800 mg/kg (Rat) | - | - |
| 4-methacryloxyethyltrimellitic Acid Anhydride (4META) 70293-55-9 | > 2 g/kg (Rat) | - | - |
| Methyl methacrylate 80-62-6 | = 7872 mg/kg (Rat) | > 5 g/kg (Rabbit) | = 4632 ppm (Rat) 4 h = 400 ppm (Rat) 1 h |
| 2-Hydroxyethyl methacrylate 868-77-9 | = 5050 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | - |

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Sensitization May cause an allergic skin reaction.

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|--------------------------------|-------|---------|-----|------|
| Methyl methacrylate 80-62-6 | | Group 3 | | |

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure May cause drowsiness or dizziness.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|-----------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------|
| Acetone 67-64-1 | | 4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50 | EC50 = 14500 mg/L 15 min | 10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50 |
| Methyl methacrylate 80-62-6 | 170: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 243 - 275: 96 h Pimephales promelas mg/L LC50 flow-through 125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow-through 153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 79: 96 h Oncorhynchus mykiss mg/L LC50 static 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static | | 69: 48 h Daphnia magna mg/L EC50 |
| 2-Hydroxyethyl methacrylate 868-77-9 | | 213 - 242: 96 h Pimephales promelas mg/L LC50 flow-through 227: 96 h Pimephales promelas mg/L LC50 | | |

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

| Chemical Name | Partition Coefficient |
|-----------------------------------------|-----------------------|
| Acetone 67-64-1 | -0.24 |
| Methyl methacrylate 80-62-6 | 0.7 |
| 2-Hydroxyethyl methacrylate 868-77-9 | 0.47 |

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|--------------------------------|------|-----------------------------------|------------------------|------------------------|
| Acetone 67-64-1 | | Included in waste stream: F039 | | U002 |
| Methyl methacrylate 80-62-6 | U162 | Included in waste stream: F039 | | U162 |

California Hazardous Waste Status

| Chemical Name | California Hazardous Waste Status |
|--------------------------------|-----------------------------------|
| Acetone 67-64-1 | Ignitable |
| Methyl methacrylate 80-62-6 | Toxic Ignitable |

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN1090
Proper Shipping Name Acetone
Hazard Class 3
Packing Group II

IATA

UN/ID No UN1090
Proper Shipping Name Acetone
Hazard Class 3
Packing Group II

IMDG

UN/ID No UN1090
Proper Shipping Name Acetone
Hazard Class 3
Packing Group II

15. REGULATORY INFORMATION

International Inventories

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|-----------------------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Acetone | Present | X | | Present | | Present | X | Present | X | X |
| Methyl methacrylate | Present | X | | Present | | Present | X | Present | X | X |
| 2-Hydroxyethyl methacrylate | Present | X | | Present | | Present | X | Present | X | X |

Legend:

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 Chemical Substances/European 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

US Federal Regulations

CERCLA

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|--------------------------------|--------------------------|----------------|--------------------------------------------|
| Acetone 67-64-1 | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| Methyl methacrylate 80-62-6 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |

SARA 313

| Chemical Name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|-------------------------------|---------|-------------|-------------------------------|
| Methyl methacrylate - 80-62-6 | 80-62-6 | Proprietary | 1.0 |

CWA (Clean Water Act)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Methyl methacrylate | 1000 lb | | | X |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------|------------|---------------|--------------|
| Acetone 67-64-1 | X | X | X |
| Methyl methacrylate 80-62-6 | X | X | X |



Safety Data Sheet

Issue Date: 13-Jul-2012

Revision Date: 13-Jan-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Touch&Bond™ Pledget Activator (Sponges)

Other means of identification

SDS # S282

Recommended use of the chemical and restrictions on use

Recommended Use Dentin/Enamel Bonding System and Dentinal Desensitizer.

Details of the supplier of the safety data sheet

Supplier Address

Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717

Emergency Telephone Number

Company Phone Number (631) 249-1134
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Blue colored sponge-like solid

Physical State Solid

Odor No odor

Classification

Hazards Not Otherwise Classified (HNOC)

May form combustible dust concentrations in air

Signal Word

Warning

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---------------------------|-------------|-------------|
| Aromatic Sodium Sulfinate | Proprietary | Proprietary |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

| | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Skin Contact | Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Ingestion | Promptly drink several glasses of water or milk to dilute. Get medical attention. |

Most important symptoms and effects

| | |
|-----------------|-----------------------------------------------------------------------------------------|
| Symptoms | May be irritating to skin and eyes. May be irritating to the mouth, throat and stomach. |
|-----------------|-----------------------------------------------------------------------------------------|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

For small fires, use dry chemical, carbon dioxide (CO₂), water spray, or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustible. Concentration of the dust may be explosive.

Hazardous Combustion Products Carbon monoxide. Nitrogen oxides (NO_x). Hydrogen cyanide. Acrylonitrile. Acetaldehyde. Sulfur oxides.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precautions | Use personal protection recommended in Section 8. |
| Environmental Precautions | Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. |

Methods and material for containment and cleaning up

| | |
|--------------------------------|-----------------------------------------------------------------------------------------|
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for Clean-Up | Sweep up and shovel into suitable containers for disposal. Flush spill area with water. |

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Use only in well-ventilated areas. Protect container from physical damage.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed. Store in a cool, dry, and dark place, preferably in a refrigerator. Protect from direct sunlight. Store away from ignition sources and incompatible materials.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s). The following information is given as general guidance

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses.

Skin and Body Protection Rubber or PVC gloves.

Respiratory Protection No protection is ordinarily required under normal conditions of use and with adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|--------------------------------|-----------------------|----------------|
| Physical State | Solid | Odor | No odor |
| Appearance | Blue colored sponge-like solid | Odor Threshold | Not determined |
| Color | Blue | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|------------------------------|-------------------|-------------------------|
| pH | Not applicable | |
| Melting Point/Freezing Point | Not determined | |
| Boiling Point/Boiling Range | Not applicable | |
| Flash Point | >260 °C / >500 °F | Tag Closed Cup |
| Evaporation Rate | Not applicable | |
| Flammability (Solid, Gas) | Not determined | |
| Upper Flammability Limits | Not applicable | |
| Lower Flammability Limit | Not applicable | |
| Vapor Pressure | Not applicable | |
| Vapor Density | Not applicable | |
| Specific Gravity | Not applicable | |
| Water Solubility | Soluble in water | |
| Solubility in other solvents | Not determined | |
| Partition Coefficient | Not determined | |
| Auto-ignition Temperature | Not known | |
| Decomposition Temperature | Not determined | |
| Kinematic Viscosity | Not determined | |
| Dynamic Viscosity | Not determined | |
| Explosive Properties | Not determined | |
| Oxidizing Properties | Not determined | |

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Hygroscopic.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Not known.

Conditions to Avoid

Keep separated from incompatible substances. Avoid high temperatures (above 30°C/86°F), high humidity, direct sunlight, and ignition sources. Keep out of reach of children.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide. Nitrogen oxides (NO_x). Hydrogen cyanide. Acrylonitrile. Acetaldehyde. Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Avoid inhalation of dust.

Ingestion Do not ingest.

Component Information

Not available

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Not available

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

| |
|-----------------------------------|
| 15. REGULATORY INFORMATION |
|-----------------------------------|

International Inventories

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---------------------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Aromatic Sodium Sulfinate | Present | X | | Present | | Present | X | Present | X | X |

Legend:

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 Chemical Substances/European 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

US Federal Regulations**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical Hazards

Not determined

Personal Protection

Not determined

Issue Date: 13-Jul-2012**Revision Date:** 13-Jan-2015**Revision Note:** New format**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical Hazards

Not determined

Personal Protection

Not determined

Issue Date: 13-Jul-2012**Revision Date:** 13-Jan-2015**Revision Note:** New format**Disclaimer**

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End of Safety Data Sheet