

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : DEFY Exterior Wood Stain Stripper

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Stripping Exterior Wood Surfaces

1.3. Supplier

Manufacturer

SaverSystems
800 7th Street
Richmond, Indiana 47374
USA
T 800-860-6327
www.saversystems.com

1.4. Emergency telephone number

Emergency number : ChemTel LLC
(800)255-3924 (North America)
+1 (813)248-0585 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| | | |
|--|------|---|
| Skin corrosion/irritation Category 1 | H314 | Causes severe skin burns and eye damage |
| Serious eye damage/eye irritation Category 1 | H318 | Causes serious eye damage |
| Full text of H statements : see section 16 | | |

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

Precautionary statements (GHS) :

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.
P260 - Do not breathe mist/vapors/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a poison center or doctor.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS)

1.6% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

1.6% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|-----------------------|--------------------|------|--|
| sodium hydroxide | CAS-No.: 1310-73-2 | 5-10 | Skin Corr. 1A, H314 |
| 2-Butoxyethanol | CAS-No.: 111-76-2 | 3 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 |
| disodium metasilicate | CAS-No.: 6834-92-0 | 0-5 | Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 |

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

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. |
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. |
| First-aid measures after eye contact | : 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. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|------------------|--|
| Symptoms/effects | : Causes severe skin burns and eye damage. |
|------------------|--|

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4.3. Immediate medical attention and special treatment, if necessary

No. If exposed or concerned: Get medical advice/attention.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, spray, vapors.
Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Incompatible materials. Keep container closed when not in use.

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Incompatible products : Strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

disodium metasilicate (6834-92-0)

No additional information available

sodium hydroxide (1310-73-2)

USA - ACGIH - Occupational Exposure Limits

| | |
|----------------------|----------------------------------|
| Local name | Sodium hydroxide |
| ACGIH OEL Ceiling | 2 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: URT, eye, & skin irr |
| Regulatory reference | ACGIH 2021 |

USA - OSHA - Occupational Exposure Limits

| | |
|--------------------------------|--------------------------|
| Local name | Sodium hydroxide |
| OSHA PEL (TWA) [1] | 2 mg/m ³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

USA - NIOSH - Occupational Exposure Limits

| | |
|---------------------|---------------------|
| NIOSH REL (Ceiling) | 2 mg/m ³ |
|---------------------|---------------------|

2-Butoxyethanol (111-76-2)

USA - ACGIH - Occupational Exposure Limits

| | |
|--------------------------------|--|
| Local name | 2-Butoxyethanol (EGBE) |
| ACGIH TWA (mg/m ³) | 97 mg/m ³ |
| ACGIH OEL TWA [ppm] | 20 ppm |
| Remark (ACGIH) | TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI |
| Regulatory reference | ACGIH 2021 |

USA - ACGIH - Biological Exposure Indices

| | |
|----------------------|---|
| Local name | 2- BUTOXYETHANOL |
| BEI (BLV) | 200 mg/g Kreatinin Parameter: Butoxyacetic acid (BAA) (with hydrolysis) - Medium: urine - Sampling time: End of shift |
| Regulatory reference | ACGIH 2021 |

USA - OSHA - Occupational Exposure Limits

| | |
|--------------------------------|--------------------------|
| Local name | 2-Butoxyethanol |
| OSHA PEL (TWA) [1] | 240 mg/m ³ |
| OSHA PEL (TWA) [2] | 50 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

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2-Butoxyethanol (111-76-2)

USA - NIOSH - Occupational Exposure Limits

| | |
|---------------------|----------------------|
| NIOSH REL (TWA) | 24 mg/m ³ |
| NIOSH REL TWA [ppm] | 5 ppm |

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear nitrile and butyl protective gloves.

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

A properly fitted respirator with acid/mist cartridges is recommended in instances where exposures may be exceeded.

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|----------------------------|
| Physical state | : Liquid |
| Appearance | : Colorless watery liquid. |
| Color | : Colorless |
| Odor | : characteristic |
| Odor threshold | : No data available |
| pH | : 13 |
| Melting point | : No data available |
| Freezing point | : < 0 °C |
| Boiling point | : > 100 °C |
| Flash point | : 200 °F |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1.06 |

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| | |
|---------------------------|---------------------|
| Solubility | : No data available |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Under normal conditions of storage and use, hazardous reactions will not occur.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| DEFY Exterior Wood Stain Stripper | |
|-----------------------------------|--|
| Unknown acute toxicity (GHS) | 1.6% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 1.6% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |
| disodium metasilicate (6834-92-0) | |
| LD50 Dermal rat | > 5000 mg/kg |
| ATE (oral) | 1153 mg/kg body weight |
| 2-Butoxyethanol (111-76-2) | |
| LD50 Oral rat | ≥ 470 mg/kg |

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| 2-Butoxyethanol (111-76-2) | |
|-----------------------------------|---------------------------|
| LD50 Dermal rat | > 2000 mg/kg Source: ECHA |
| ATE (oral) | 500 mg/kg body weight |
| ATE (gases) | 4500 ppmV/4h |
| ATE (vapors) | 11 mg/l/4h |
| ATE (dust, mist) | 1.5 mg/l/4h |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes severe skin burns. pH: 13 |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 13 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

| 2-Butoxyethanol (111-76-2) | |
|-----------------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| | |
|-----------------------|------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

| disodium metasilicate (6834-92-0) | |
|--|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

| | |
|---------------------------|--|
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Likely routes of exposure | : Inhalation. Skin and eye contact. |
| Symptoms/effects | : Causes severe skin burns and eye damage. |

SECTION 12: Ecological information

12.1. Toxicity

| disodium metasilicate (6834-92-0) | |
|--|-----------------------------------|
| LC50 fish 1 | 2320 mg/l <i>Gambusia affinis</i> |
| EC50 crustacea | 1700 mg/l |
| LC50 - Fish [2] | 210 mg/l <i>Brachydanio rerio</i> |

| 2-Butoxyethanol (111-76-2) | |
|-----------------------------------|-------------------------------------|
| LC50 fish 1 | 1474 ppm <i>Oncorhynchus mykiss</i> |
| EC50 crustacea | 1800 mg/l |
| EC50 - Crustacea [2] | 1550 mg/l 48 h |
| ErC50 algae | 911 mg/l 72 h |

12.2. Persistence and degradability

| DEFY Exterior Wood Stain Stripper | |
|--|------------------|
| Persistence and degradability | Not established. |

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12.3. Bioaccumulative potential

DEFY Exterior Wood Stain Stripper

Bioaccumulative potential : Not established.

disodium metasilicate (6834-92-0)

Bioaccumulative potential : Not expected to bioaccumulate.

2-Butoxyethanol (111-76-2)

Log Pow : 0.81 Source: ECHA

Log Kow : 0.83

Bioaccumulative potential : Not expected to bioaccumulate.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

DOT NA No : UN3266

14.2. UN proper shipping name

Proper Shipping Name (DOT) : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 8

Hazard labels (DOT) : 8



14.4. Packing group

Packing group (DOT) : III

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14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT
UN-No.(DOT) : UN3266
DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters", 52 - Stow "separated from" acids

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

United States Environmental Protection Agency Toxic Substances Control Act (TSCA): Consult the supplier for further information

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

sodium hydroxide (1310-73-2)

| | |
|-----------|---------|
| CERCLA RQ | 1000 lb |
|-----------|---------|

15.2. International regulations

CANADA

disodium metasilicate (6834-92-0)

Listed on the Canadian DSL (Domestic Substances List)

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sodium hydroxide (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List)

2-Butoxyethanol (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

disodium metasilicate (6834-92-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2-Butoxyethanol (111-76-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

disodium metasilicate (6834-92-0)

Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on Taiwan National Chemical Inventory
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Chinese Catalog of Hazardous Chemicals.
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)

2-Butoxyethanol (111-76-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on the Chinese Catalog of Hazardous Chemicals.
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
CSCL: Japanese Chemical Substances Control Law

15.3. US State regulations



WARNING:

This product can expose you to 1,4-dioxane, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| Component | State or local regulations |
|-----------------------------|---|
| sodium hydroxide(1310-73-2) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| 2-Butoxyethanol(111-76-2) | U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) List |

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SECTION 16: Other information

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

Revision date : 12/03/2021

Other information : None.

| Full text of H-phrases | |
|------------------------|---|
| H227 | Combustible liquid |
| H290 | May be corrosive to metals |
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.