

Section 1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

| | |
|--------------|------------|
| Product Form | Mixture |
| Trade Name | DUO SHIELD |
| Product Code | DUO |

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Industrial. For professional use only.

1.2.2 Uses Advised Against

No additional information available

1.3 Details of the supplier of the safety data sheet**Manufacturer**

NOX-CRETE, INC.
1444 SOUTH 20TH STREET
OMAHA, NE 68108
Tel: 402-341-2080
Fax: 402-341-9752
E-Mail: corporate@nox-crete.com
Web Site: www.nox-crete.com

1.4 Emergency telephone number**Emergency Number**

Chemtrec (800) 424-9300
Chemtrec Outside of U.S. 703-527-3887

Section 2. Hazards identification**2.1 Classification of the substance or mixture**

| | |
|---------------------------|------|
| Flam Liq. 2 | H225 |
| Acute Tox. 5 (oral) | H303 |
| Asp. Tox. 1 | H304 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| Acute Tox. 4 (inhalation) | H332 |
| STOT SE 3 resp. irrit. | H335 |
| Carc. 2 | H351 |
| STOT RE 2 | H373 |

Full text of H phrases see section 16

Adverse physiochemical, human health and environmental effects

No additional information available

2.2 Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H225 - Highly flammable liquid and vapor

H303 - May be harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H373 - May cause damage to ears and CNS through prolonged or repeated exposure

Precautionary statements

Prevention:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces-No smoking.
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/light/.../equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash exposed area's thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response:

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303+P361+P353 - IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing
P308+P313 - IF exposed or concerned: Get medical advice/attention
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P331 - Do NOT induce vomiting
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse.
P370+P378 - In case of fire: Use Dry chemical, foam, carbon dioxide for extinction

Storage:

P405+P403+P235 - Store locked up in a well ventilated place. Keep cool.

Disposal:

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Full text of H and P phrases: see section 16

2.3 Other hazards

None known

Section 3. Composition / information on ingredients**3.1 Substances**

Not applicable

3.2 Mixture

| Name | Product identifier | % |
|---------------|--------------------|--------------|
| Butyl Acetate | Trade Secret | Trade Secret |
| Ethylbenzene | 100-41-4 | < 4.0 |
| Xylene | 1330-20-7 | < 11.0 |

Pursuant to 29CFR 1910.1200(i) the specific chemical identity (and / or) concentration is being withheld as Trade Secret, while all health and safety properties and effects are included in the SDS.

Section 4. First aid measures**4.1 Description of first aid measures****First-aid measures general**

Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation

If the individual experiences nausea, dizziness, has difficulty in breathing seek a healthcare professional immediately. In all cases of doubt, or when symptoms persist, seek medical advice. Remove 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

If skin irritation persists, seek medical attention. Remove or take off immediately all contaminated clothing. Rinse skin with water or shower. Wash off immediately with soap and plenty of water.

First-aid measure after eye contact

When contact lenses are worn, remove if possible. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes while holding eyelids apart. Get medical attention immediately.

First-aid measures after ingestion

Rinse mouth. DO NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, acute and delayed**Symptoms/injuries after inhalation**

May cause irritation to the respiratory tract. Overexposure to vapors may result in headache, nausea, drowsiness or dizziness.

Symptoms/injuries after skin contact

May cause skin irritation or burning sensation

Symptoms/injuries after eye contact

May cause eye irritation or injury

Symptoms/injuries after ingestion

May cause severe irritation or burns to the mucous membrane of the mouth, throat, esophagus and stomach

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

Section 5. Firefighting measures**5.1 Extinguishing media**

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), *Hazardous Products Regulation (HPR)* (WHMIS 2015)

| | |
|--|---|
| Suitable extinguishing media | Dry chemical, foam, carbon dioxide |
| Unsuitable extinguishing media | Do not use heavy water stream |
| 5.2 Special hazards arising from the substance or mixture | |
| Reactivity | Thermal decomposition products may cause a health hazard. |
| 5.3 Advice for firefighters | |
| Firefighting instructions | Flammable Liquid! This material releases vapors when heated above ambient temperatures. Vapors can cause a flash fire. Use water spray or fog to cool exposed containers. |
| Protective equipment for firefighters | Firefighters should always wear self-contained breathing apparatus (SCBA) and full protective gear when fighting any chemical fire. |
| Other information | On heating or burning harmful gasses/vapors may be released. This product may cause the floor to become slippery. |

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures Extremely Flammable. Eliminate any ignition sources. Dike or impound spilled material. Use Non-sparking tools. All equipment must be grounded. Take proper precautions to ensure your own health and safety before attempting spill control or cleanup.

6.11 Protective Equipment

Equip cleanup crew with proper protective equipment.

6.2 Environmental precautions

Prevent entry to sewers and public waters.

Notify authorities if liquid enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth. Collect into vapor tight containers and dispose of properly.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures Wash hands and other exposed areas with soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in work areas to prevent formation of vapor. When not in use keep containers tightly closed. Avoid breathing vapor or mist.

Hygiene measures Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Store in accordance with local regulations. Store in original container in a cool well ventilated place away from heat, sparks and open flame.. Keep containers tightly closed until ready for use.

Incompatible materials Strong oxidizing agents and acids

Storage temperature Store in a cool dry environment away from sources of ignition.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Ingredient name | Occupational exposure limits ACGIH TLV (United States) |
|-----------------|---|
| Butyl Acetate | TWA: 200 ppm 8 hours |
| Xylene | TWA: 100 ppm 8 hours |
| Ethylbenzene | TWA: 20 ppm 8 hours |

8.2 Exposure controls

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), *Hazardous Products Regulation (HPR)* (WHMIS 2015)

| | |
|---|---|
| Appropriate engineering controls | Use with adequate ventilation to keep product vapor concentrations below specified TLV |
| Eye and face protection | Chemical goggles and/or face shields are required to prevent potential eye contact, irritation or injury. |
| Skin protection | Wear chemical resistant gloves and appropriate protective clothing and boots as required to prevent skin contact. Wash exposed skin frequently with soap and water. Soiled clothing should be laundered before reuse. |
| Respiratory protection | General room ventilation is normally adequate. Avoid breathing the product mist or vapors. The use of an appropriate respirator is recommended whenever the airborne concentrations exceed the TLV. |

Section 9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|--|--------------------------------------|
| Appearance | Clear liquid |
| Odor | Sweet |
| Odor Threshold | No data available |
| PH | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | > 98 C (>200 F) |
| Flash point | > 4 C > 40 F PMCC |
| Relative evaporation rate (butyl acetate=1) | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower explosive limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density (Specific gravity) | 0.89 Kg per Liter 7.4 Lbs per Gallon |
| Solubility | Water: Negligible |
| Partition coefficient n-octanol/water | No data available |
| Auto-ignition temperature | Not applicable |
| Viscosity | No data available |
| VOC content | < 400 grams per liter |

Section 10. Stability and reactivity

| | |
|--|--|
| 10.1 Reactivity | No additional information available |
| 10.2 Chemical stability | Stable under normal conditions |
| 10.3 Possibility of hazardous reactions | Hazardous polymerization will not occur. |
| 10.4 Conditions to avoid | Extreme high or low temperatures. |
| 10.5 Incompatible materials | Strong acids and oxidizers |
| 10.6 Hazardous decomposition products | carbon monoxide, carbon dioxide, various hydrocarbon derivatives |

Section 11. Toxicology information**11.1 Information on toxicological effects**

| | |
|--|---|
| Acute toxicity | No adverse effects expected under intended use. |
| Irritation/Corrosion | May cause skin irritation |
| Skin | |
| Eyes | May cause serious eye irritation and damage. |
| Respiration or skin sensitization | May cause respiratory irritation |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | |
| IARC | |

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), *Hazardous Products Regulation (HPR)* (WHMIS 2015)

| | |
|--------------|----|
| Xylene | 3 |
| Ethylbenzene | 2B |

2B - Limited evidence in humans and less than sufficient evidence in animals.

3 - Inadequate in humans and inadequate or limited in animals.

Reproductive toxicity No data available**Specific target organ toxicity****Single exposure** No data available**Repeated exposure** No data available**Aspiration hazard** May be fatal if swallowed and enters airways**Section 12. Ecological information**

| | |
|---|-------------------------------------|
| 12.1 Ecotoxicity | Not established |
| 12.2 Persistence and degradability | Not established |
| 12.3 Bioaccumulative potential | Not established |
| 12.4 Mobility in soil | No additional information available |
| 12.5 Other adverse effects | Avoid release to the environment |

SECTION 13. Disposal Considerations

| | |
|-------------------------------------|--|
| 13.1 Waste treatment methods | The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all applicable local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. |
|-------------------------------------|--|

SECTION 14. Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

| | |
|--|-------------------------------------|
| 14.1 UN number | UN1123 |
| 14.2 UN proper shipping name | Butyl Acetates, |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | II |
| 14.5 Environmental hazards | No additional information available |
| 14.6 Special precautions for user | |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No additional information available |
| 14.8 Transport in bulk according to CFR 49 173.15 | Not applicable |

SECTION 15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.2 USA Regulations**

| | |
|--------------------|---|
| Section 313 | Contains the following ingredients at or above the reporting level requirements of Section 313. This information must be included in all SDS's copied or distributed for this material. |
|--------------------|---|

| CHEMICAL | CAS # | MAX WEIGHT % |
|--------------|-----------|--------------|
| Xylene | 1330-20-7 | 11.0 |
| Ethylbenzene | 100-41-4 | 4.0 |

According to Regulation 29 CFR 1910.1200, Regulation (EC) No. 1272/2008 (CLP)(GHS), *Hazardous Products Regulation* (HPR) (WHMIS 2015)**TSCA**

All ingredients are listed or exempted

PROPOSITION 65**WARNING:** This product can expose you to chemicals including Ethylbenzene, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.**15.1.3 Canada Regulations**This SDS has been prepared according to the hazard criteria of the *Hazardous Products Regulation* (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR**DSL****15.2 Chemical safety assessment**

All ingredients are listed or exempted

A Chemical Safety Assessment has not been carried out.

Section 16. Other information

| | |
|------------------------|-----------------|
| Date of issue | 1-31-2020 |
| Version | 2.2 |
| Number | 879 |
| Date of previous issue | 10-15-2018 |
| Preparer | Nox-Crete, Inc. |

Reference Documentation

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Full text of H and P phrases

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Carc. 2 H351
STOT RE 2 H373

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