



Safety Data Sheet (SDS)

SECTION 1: PRODUCT AND COMPANY INFORMATION

SUPPLIER / DISTRIBUTOR

DSI Automotive Products
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PRODUCT IDENTIFIER

DC-CC Crimson Crush

OTHER COMMON NAMES OR SYNONYMS

Section 2: Hazard(s) Identification

GHS CLASSIFICATION

HAZARD CLASSIFICATION

Corrosive to metal: Category 1

Serious Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 1

Specific Target Organ Toxicity (single exposure): Category 1

Specific Target Organ Toxicity (respiratory irritation): Category 3

Specific Target Organ Toxicity (repeated exposure): Category 1

GHS LABEL ELEMENTS



Signal Word: Danger

HAZARD STATEMENT

May be corrosive to metals. Causes serious eye damage. Causes severe skin burns and eye damage. May cause respiratory irritation. Causes damage to organs: blood or blood-forming organs.

PRECAUTIONARY STATEMENTS (PREVENTION)

Keep only in original container. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, and eye/face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

PRECAUTIONARY STATEMENTS (RESPONSE)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Absorb spillage to prevent material damage.

PRECAUTIONARY STATEMENTS (STORAGE):

Store in a corrosive resistant container with a resistant inner liner. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

PRECAUTIONARY STATEMENTS (DISPOSAL):

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

OTHER HAZARDS

May cause chemical gastrointestinal burns. May cause chemical respiratory tract burns.

Section 3: Composition/Information on Ingredients

The identity of individual components of this mixture is proprietary information and is regarded to be a trade secret and is withheld in accordance with paragraph (i) of §1910.1200.

Ingredient	% by Wt.	
Water	70-85%	
Ethylene Glycol Ethers	0-10%	111-76-2
Surfactants	0-10%	1300-72-7
Sodium Hydrates	0-10%	1310-73-2

Section 4: First-Aid Measures

EYE CONTACT: Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

INHALATION: Remove person to fresh air. Get immediate medical attention.

SKIN CONTACT: Wash affected areas with water while removing contaminated clothing. Remove contaminated clothing. Immediate medical attention required. Wash soiled clothing immediately.

INGESTION: Rinse mouth. Do not induce vomiting. Get immediate medical attention.

Most important symptoms/effects, acute and delayed: None known. See section 11.

SPECIFIC TREATMENTS: No data available.

PROTECTION OF FIRST-AIDERS: No special precautions are necessary for first aid responders.

Section 5: Fire-Fighting Measures

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: None inherent in this product.

SUITABLE EXTINGUISHING MEDIA: In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

UNSUITABLE EXTINGUISHING MEDIA: Water. Do not use water jet as an extinguisher, as this will spread the fire.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: carbon oxides, irritant vapors

SPECIAL FIRE FIGHTING PROCEDURES: Move containers from fire area if you can do so without risk.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: No data available

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Contain spill. For large spills, if necessary, get assistance from professional spill cleanup team. For small spills, carefully neutralize spill by adding appropriate dilute acid such as vinegar. Work slowly to avoid boiling or spattering. Continue to add neutralizing agent until reaction stops. Let cool before collecting. Or use a commercially available caustic (alkaline or basic) spill clean-up kit. Follow kit directions exactly. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

ENVIRONMENTAL PRECAUTIONS:

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

Section 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

Keep out of reach of children. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a well-ventilated place. Keep container tightly closed. Store in a corrosive resistant container with a resistant inner liner. Store away from acids. Store away from oxidizing agents. Store away from areas where product may come into contact with food or pharmaceuticals.

Section 8: Exposure Controls/Personal Protection

CONTROL PARAMETERS

Ingredients	CAS	Value type (Form of exposure)	Control parameters Permissible concentration	Basis
Sulfuric acid	7664-93-9	PEL	1 mg/m ³	
		TWA	0.2 mg/m ³	Thoracic fraction.
		TWA	1 mg/m ³	
α-Hydro-ω-hydroxypoly (oxy-1,2-ethanediyl) M ~ 200	25322-68-3	TWA	10mg/m ³	WEEL
2-Butoxyethano	111-76-2	TWA	20ppm	US (ACGIH)
		IDLH	700ppm	NIOSH
		TWA	50ppm, 240mg/m ³	US (OSHA)

ENGINEERING MEASURES

Store in a well-ventilated place. Keep container tightly closed. Store in a corrosive resistant container with a resistant inner liner. Store away from acids. Store away from oxidizing agents. Store away from areas where product may come into contact with food or pharmaceuticals.

INDIVIDUAL PROTECTION MEASURES

EYE/FACE PROTECTION

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Full Face Shield, Indirect Vented Goggles

SKIN/HAND PROTECTION

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate.

RESPIRATORY PROTECTION

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half face piece or full face piece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

HYGIENE MEASURES

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact.

Section 9: Physical and Chemical Properties

PHYSICAL STATE	PH	FLAMMABILITY (SOLID, GAS)
Viscous Liquid	13	No data available.
FORM	FREEZING POINT	FLAMMABILITY LIMIT - UPPER (%)
Liquid	No data available	No data available.
COLOR	BOILING POINT	FLAMMABILITY LIMIT - LOWER (%)
Clear to Amber	100 Deg. C, 212 Deg F	No data available.
ODOR	FLASH POINT	EXPLOSIVE LIMIT - UPPER (%)
Not determined due to hazard.	>140 F.(COC)	No data available.
ODOR THRESHOLD	EVAPORATION RATE	EXPLOSIVE LIMIT - LOWER (%)
No data available.	No data available.	No data available.

VAPOR PRESSURE
No data available.

SOLUBILITY IN WATER
No data available

AUTO-IGNITION TEMPERATURE
No data available.

VAPOR DENSITY
No data available.

SOLUBILITY (OTHER)
No data available.

DECOMPOSITION TEMPERATURE
No data available.

RELATIVE DENSITY
No data available

PARTITION COEFFICIENT (N-
OCTANOL/WATER)
No data available.

VISCOSITY
No data available.

Section 10: Stability and Reactivity

REACTIVITY

Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).

CHEMICAL STABILITY

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

CONDITIONS TO AVOID

Heat, flames and sparks. Reacts violently with strong alkaline substances. This product may react with reducing agents. Contact with incompatible materials.

INCOMPATIBLE MATERIALS

Strong acids, Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products if stored and handled as prescribed/indicated. Hazardous decomposition products: carbon oxides, nitrogen oxides, nitrous gases

Section 11: Toxicological Information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

Based on test data and/or information on the components, this material may produce the following health effects:

INHALATION: Respiratory Tract Corrosion: Signs/symptoms may include nasal discharge, severe nose and throat pain, chest tightness and pain, coughing up blood, wheezing, and breathlessness, possibly progressing to respiratory failure. May cause target organ effects after inhalation.

SKIN CONTACT: Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

EYE CONTACT: Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

INGESTION: Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen. May cause target organ effects after ingestion.

Target Organ Effects:

SINGLE EXPOSURE MAY CAUSE: Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and/or hemoglobinemia.

TOXICOLOGICAL DATA

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
2-Butoxyethanol	Dermal	Rabbit	LD50 400 mg/kg
2-Butoxyethanol	Inhalation-Vapor (4 hours)	Rat	LC50 2.2 mg/l
2-Butoxyethanol	Ingestion	Rat	LD50 560 mg/kg
2-Butoxyethanol	Oral	Guinea Pig	LD50: 1414 mg/kg
2-Butoxyethanol	Inhalation (1 hour)	Guinea Pig	LC0: > 3.1 mg/l > 641 ppm

Skin Corrosion / Irritation

Name	Species	Value
2-Butoxyethanol	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
2-Butoxyethanol	Rabbit	Severe Irritant
2-Butoxyethanol		Causes serious eye irritation.
2-Butoxyethanol	Rabbit	Prolonged skin contact may cause temporary irritation.

Skin Sensitization

Name	Species	Value
2-Butoxyethanol	Guinea Pig	Not sensitizing

Respiratory Sensitization

Name	Species	Value

Germ Cell Mutagenicity

Name	Route	Value
2-Butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
2-Butoxyethanol	Inhalation	Multiple Species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Name	Route	Value	Species	Test Result	Exposure Duration
2-Butoxyethanol	Dermal	Not toxic to development	Rat	NOAEL 1,760 mg/kg/day	during gestation
2-Butoxyethanol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 100 mg/kg/day	during organogenesis
2-Butoxyethanol	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Multiple Species	NOAEL 0.48 mg/l	during organogenesis

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ	Value	Species	Test Result	Exposure Duration
2-Butoxyethanol	Dermal	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 902 mg/kg	6 Hours
2-Butoxyethanol	Dermal	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 72 mg/kg	
2-Butoxyethanol	Dermal	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 451 mg/kg	6 hours
2-Butoxyethanol	Dermal	Blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Inhalation	Blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-Butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not	Human	NOAEL Not available	

			sufficient for classification			
2-Butoxyethanol	Inhalation	blood	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
2-Butoxyethanol	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	poisoning and/or abuse

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ	Value	Species	Test Result	Exposure Duration
2-Butoxyethanol	Dermal	Blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Dermal	endocrine system	All data are negative	Rabbit	NOAEL 150 mg/kg/day	90 days
2-Butoxyethanol	Inhalation	blood	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.12 mg/l	90 days
2-Butoxyethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.15 mg/l	14 weeks
2-Butoxyethanol	Inhalation	Kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1.9 mg/l	14 weeks
2-Butoxyethanol	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 2.4 mg/l	14 weeks
2-Butoxyethanol	Ingestion	Blood	Causes damage to organs through prolonged or repeated exposure	Multiple animal species	NOAEL Not available	14 weeks
2-Butoxyethanol	Ingestion	Kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	14 weeks

Section 12: Ecological Information (non-mandatory)

No data available.

Section 13: Disposal Considerations (non-mandatory)

No data available.

Section 14: Transport Information (non-mandatory)

No data available.

Section 15: Regulatory Information (non-mandatory)

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

Sodium Hydrates (1310-73-2)

- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on the Canada Domestic Substances List (DSL)
- Not subject to reporting requirements of the United States SARA Section 313
- SARA Section 311/312 Hazard Classes:
 - Health hazard - Skin corrosion or Irritation
 - Health hazard - Serious eye damage or eye irritation

Ethylene Glycol Ethers (111-76-2)

- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on the Canada Domestic Substances List (DSL)
- Not subject to reporting requirements of the United States SARA Section 313
- SARA Section 311/312 Hazard Classes:
 - Fire Hazard
 - Acute Health Hazard

Surfactants – (1300-72-7)

- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on the Canada Domestic Substances List (DSL)
- Not subject to reporting requirements of the United States SARA Section 313
- SARA Section 311/312 Hazard Classes:
 - Immediate Hazard

Section 16: Other Information

PREPARATION / REVISION DATE

01/28/2019

OTHER INFORMATION

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

DISCLAIMER

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