



Red Fire

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.
Issue date: 9/1/2025 Revision date: 9/1/2025 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Red Fire
Product code : 2003

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Hard surface cleaning and degreasing.

1.3. Manufacturer

Manufacturer

Distinctive Details Inc.
1253 Lower Elkton Rd.
Columbiana, OH 44408
1.800.711.7021
www.DistinctiveDetailsInc.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (Chemtrec 24 Hr. Emergency Line)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Met. Corr. 1	May be corrosive to metals
Skin Corr. 1B	Causes severe skin burns
Eye Dam. 1	Causes serious eye damage
STOT RE 1	Causes damage to organs through prolonged or repeated exposure
HHNOC 1	Causes severe damage to the respiratory tract

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

: Danger

Hazard statements (GHS US) :

: May be corrosive to metals
Causes severe skin burns and eye damage
Causes damage to organs through prolonged or repeated exposure
Causes severe damage to the respiratory tract

Precautionary statements (GHS US) :

: Keep only in original container.
Do not breathe dust, fume, gas, vapors, mist, spray.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.

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Wear eye protection, face protection, protective clothing, protective gloves.
If swallowed: rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
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.
Get medical advice/attention if you feel unwell.
Absorb spillage to prevent material-damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
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 US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
2-Butoxyethanol	CAS-No.: 111-76-2	1 – 5
Sodium hydroxide	CAS-No.: 1310-73-2	1 – 5
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt	CAS-No.: 64-02-8	0.5 – 1.5
Sodium xylenesulfonate	CAS-No.: 1300-72-7	0.5 – 1.5

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

This product contains no phosphates

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact : If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash clothing before re-using. Immediately call a POISON CENTER or doctor.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor.

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

Symptoms/effects after inhalation	: Causes severe damage to the respiratory tract.
Symptoms/effects after skin contact	: Causes severe skin burns. Symptoms may include redness, pain, blisters.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO ₂), dry chemical powder, foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon. Toxic and corrosive vapors may be released.
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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Absorb spillage to prevent material-damage. Provide ventilation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: May be corrosive to metals.
Precautions for safe handling	: Do not get in eyes, on skin, or on clothing. Do not breathe dust, fume, gas, mist, spray, vapors. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Keep from freezing.
Hygiene measures	: Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep out of the reach of children. Keep container tightly closed. Store in original container. Store in a cool, well-ventilated place.
Packaging materials	: Store in corrosive resistant container with a resistant inner liner. Storage at $\geq 0^{\circ}\text{C}$ (32°F)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Red Fire	
No additional information available	
2-Butoxyethanol (111-76-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Butoxyethanol (EGBE)
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2020
USA - ACGIH - Biological Exposure Indices	
BEI (BLV)	200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift
USA - OSHA - Occupational Exposure Limits	
Local name	2-Butoxyethanol
OSHA PEL (TWA) [1]	240 mg/m³
OSHA PEL (TWA) [2]	50 ppm
Limit value category (OSHA)	prevent or reduce skin absorption
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
IDLH [ppm]	700 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	24 mg/m³
NIOSH REL TWA [ppm]	5 ppm
US-NIOSH chemical category	SK: SYS-DIR(IRR) Apr 2011

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Sodium xylenesulfonate (1300-72-7)	
No additional information available	
Sodium hydroxide (1310-73-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL Ceiling	2 mg/m ³
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	2 mg/m ³
USA - IDLH - Occupational Exposure Limits	
IDLH	10 mg/m ³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (Ceiling)	2 mg/m ³
US-NIOSH chemical category	SK: DIR(COR) Apr 2011
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear suitable gloves resistant to chemical penetration
Eye protection:
Wear eye/face protection
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, Red liquid.
Color	: Red
Odor	: None
Odor threshold	: No data available
pH	: > 13
Melting point	: No data available

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Freezing point	: 32 °F (0 °F)
Boiling point	: > 212 °F (> 100 °C)
Flash point	: > 240 °F (> 115.6 °C)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1 – 1.2
Solubility	: Soluble.
Partition coefficient n-octanol/water	: 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

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Magnesium. Zinc. Aluminum. Tin. Chromium. Brass. Bronze. Strong acids.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

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

2-Butoxyethanol (111-76-2)

LD50 oral rat	470 mg/kg
LD50 dermal rat	220 mg/kg

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2-Butoxyethanol (111-76-2)	
LC50 inhalation rat	2.35 mg/l
LC50 inhalation rat	486 ppm/4h
ATE US (oral)	470 mg/kg body weight
ATE US (gases)	486 ppmV/4h
ATE US (vapors)	2.35 mg/l/4h
ATE US (dust, mist)	2.35 mg/l/4h
Sodium xylenesulfonate (1300-72-7)	
LD50 oral rat	≥ 3346 mg/kg body weight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), 95% CL: 3196 - 3503
LD50 dermal rabbit	≥ 2000 mg/kg body weight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity)
Sodium hydroxide (1310-73-2)	
LD50 oral rat	325 mg/kg
LD50 dermal rabbit	1350 mg/kg
ATE US (oral)	325 mg/kg body weight
ATE US (dermal)	1350 mg/kg body weight
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8)	
LD50 oral rat	1658 mg/kg
ATE US (oral)	1210 mg/kg body weight
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
Sodium xylenesulfonate (1300-72-7)	
NOAEL (chronic,oral,animal/female,2 years)	≥ 60 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
2-Butoxyethanol (111-76-2)	
STOT-single exposure	May cause respiratory irritation.
Sodium hydroxide (1310-73-2)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.

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2-Butoxyethanol (111-76-2)	
NOAEL (dermal,rat/rabbit,90 days)	> 150 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Sodium xylenesulfonate (1300-72-7)	
NOAEL (oral,rat,90 days)	763 – 3534 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8)	
LOAEC (inhalation,rat,dust/mist/fume,90 days)	0.015 mg/l air Animal: rat, Animal sex: female, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (oral,rat,90 days)	≥ 500 mg/kg body weight Animal: rat
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: Causes severe damage to the respiratory tract.
Symptoms/effects after skin contact	: Causes severe skin burns. Symptoms may include redness, pain, blisters.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

2-Butoxyethanol (111-76-2)	
LC50 - Fish [1]	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '21 d'
Sodium xylenesulfonate (1300-72-7)	
LC50 - Fish [1]	≥ 1580 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 1020 mg/l Test organisms (species): Daphnia magna
Sodium hydroxide (1310-73-2)	
LC50 - Fish [1]	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	40 mg/l
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8)	
LC50 - Fish [1]	41 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	140 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

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Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8)	
ErC50 algae	1.01 mg/l
LOEC (chronic)	50 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 25.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

12.2. Persistence and degradability

Red Fire	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Red Fire	
Bioaccumulative potential	Not established.

2-Butoxyethanol (111-76-2)

Partition coefficient n-octanol/water	0.81 (at 25 °C)
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Empty containers may contain residues which are hazardous.
The information in this SDS pertains only to the product as shipped.

SECTION 14: Transport information

In accordance with Department of Transport / Transportation of Dangerous Goods

14.1. UN number

DOT NA No : UN1719
UN-No. (TDG) : UN1719

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Caustic alkali liquids, n.o.s. (Contains: Sodium hydroxide)

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 8
Hazard labels (DOT) : 8

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TDG

Transport hazard class(es) (TDG) : 8

Hazard labels (TDG) : 8



14.4. Packing group

Packing group (DOT) : II

Packing group (TDG) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

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

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Issue date : 09/01/2025

Revision date : 09/01/2025

Other information : Do not allow product to freeze

Full text of H-phrases

Eye Dam. 1	Serious eye damage/eye irritation Category 1
HHNOC 1	Health hazard not otherwise classified, category 1

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Full text of H-phrases	
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1

NFPA health hazard

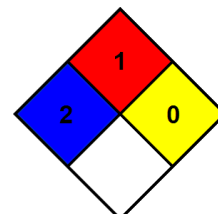
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for

2003 RED FIRE



Danger

May be corrosive to metals, Causes severe skin burns and eye damage, Causes damage to organs through prolonged or repeated exposure, Causes severe damage to the respiratory tract

Keep only in original container, Do not breathe dust, fume, gas, vapors, mist, spray, Wash hands, forearms and face thoroughly after handling, Do not eat, drink or smoke when using this product, Wear eye protection, face protection, protective clothing, protective gloves, If swallowed: rinse mouth. Do NOT induce vomiting, If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower, Wash contaminated clothing before reuse, If inhaled: Remove person to fresh air and keep comfortable for breathing, 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, Get medical advice/attention if you feel unwell, Absorb spillage to prevent material-damage, Store locked up, Store in corrosive resistant container with a resistant inner liner, Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Manufacturer

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Emergency number: 1-800-424-9300 (Chemtrec 24 Hr. Emergency Line)

