
SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: Chroma 71
MSDS Date: 06 May 2015

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Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

GHS Classification:
Flammable liquids (Category 4), H227
Eye irritation (Category 2A), H319

GHS Labeling

Symbol:

Signal Word: Warning

Hazard Statements:
Combustible liquid
Causes serious eye irritation

Precautionary Statements:**Prevention:**

Keep away from flames and hot surfaces-no smoking.
Wear protective gloves/eye protection/face protection
Wash thoroughly after handling.
Wear eye protection/face protection.

Response:

In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

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

Potential Health Effects: See Section 11 for more information.

This product does not contain carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSTION/INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	Dimethyl Succinate CAS #106-65-0	1-20	Not avail	Not avail	Not avail	Not avail
2	1-butoxy-2-propanol CAS #5131-66-8	1-20	Not Avail	Not Avail	Not Avail	Not Avai
3	Polyoxyethylene CAS #9002-93-1	1-10	Not avail	Not avail	Not avail	Not avail
4	Nonylphenol Ethoxylate CAS #9016-45-9	1-10	Not avail	Not avail	Not avail	Not avail
5	2-propoxyethanol CAS #2807-30-9	1-20	Not avail	Not avail	Not avail	Not avail
6	Dipropylene glycol monomethyl ether CAS #34590-94-8	1-50	100 ppm	150 ppm	100 ppm	150 ppm

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

HAZARD	HMIS	NFPA
Toxicity	1	1
Fire	2	2
Reactivity	0	0

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

See section 3 for exposure limits.

See section 3 for exposure limits.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

- a) **Appearance Form:** liquid
- b) **Odor** No data available
- c) **Odor Threshold** No data available
- d) **pH** No data available
- e) **Melting point/freezing point** No data available
- f) **Initial boiling point and boiling range** Dipropylene glycol monomethyl ether 190 °C (374 °F) - lit.
- g) **Flash point > 74 °C (165 °F)** - closed cup
- h) **Evaporation rate** No data available
- i) **Flammability (solid, gas)** No data available
- j) **Upper/lower flammability or explosive limits** No data available
- k) **Vapor pressure** Dipropylene glycol monomethyl ether 0.5 hPa (0.4 mmHg) at 25 °C (77 °F)
- l) **Vapor density** No data available
- m) **Relative density** Dipropylene glycol monomethyl ether 0.951 g/cm³ at 25 °C (77 °F)
- n) **Water solubility** soluble
- o) **Partition coefficient: noctanol/water** Dipropylene glycol monomethyl ether log Pow: -0.06 at 20 °C (68 °F)
- p) **Auto-ignition temperature** No data available
- q) **Decomposition temperature** No data available
- r) **Viscosity** No data available
- s) **Explosive properties** No data available
- t) **Oxidizing properties** No data available

9.2 Other safety information

No data available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents, Strong acids

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Analysis LD50

Dimethyl Succinate (106-65-0)

Oral LD50 Rat: >5g/kg

Dermal LD50 Rat: 1920 mg/kg

Slightly toxic following oral administration. Practically nontoxic after skin application in animal studies.

Moderately irritating to eyes (rabbit). Practically non irritating to skin (rabbit).

1-butoxy-2-propanol (5131-66-8)

LD50 Oral - rat - 5,009 mg/kg

Nonylphenol Ethoxylate (9016-45-9)

Oral: LD50 Rat = 3310 mg/kg

Inhalation: Believed to be practically non-toxic.

Dermal: LD50 Rabbit > 2000 mg/kg

Dipropylene glycol monomethyl ether (34590-94-8)

LD50 Oral - Rat - 5,152 mg/kg

2-propoxyethanol CAS #2807-30-9

LD50 Oral - Rat - male - 3,089 mg/kg

Remarks: Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

LC50 Inhalation - Mouse - 7 h - 1530 ppm

Remarks: Behavioral: Analgesia. Lungs, Thorax, or Respiration: Dyspnea. Kidney, Ureter, Bladder: Hematuria.

LD50 Dermal - Rabbit - male - 1,337 mg/kg

CHRONIC EFFECTS:

Dimethyl Succinate (106-65-0)

Carcinogenicity: Not Available

Neurotoxicity: Not available

Mutagenicity: no genetic effects were observed in standard tests using bacterial cells and whole animals.

Reproductive: Minor changes in male fertility parameters, i.e. hormone measurements, sperm number or reproductive organ weights, observed in the absence of a change in reproductive performance.

Developmental: rate inhalation no effects on offspring observed in laboratory animals in the presence of maternal toxicity.

Target Organs: Causes eye irritation. May cause skin irritation. May cause respiratory tract irritation. May cause blurred vision. Mild skin and moderate eye irritation during primary irritation studies in rabbits.

1-butoxy-2-propanol (5131-66-8)

Carcinogenic Effects: Not listed as a carcinogen according to IARC, NTP, ACGIH, or OSHA.

Mutagenic Effects: Non Mutagenic

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: Not Available

Dipropylene glycol monomethyl ether (34590-94-8)

Carcinogenic Effects: Not listed as a carcinogen according to IARC, NTP, or OSHA.

Mutagenic Effects: Non Available

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: Eyes - Rabbit

Result: Mild eye irritation - 24 h

2-propoxyethanol (2807-30-9)

Carcinogenic Effects: Not listed as a carcinogen according to IARC, NTP, ACGIH, or OSHA.

Mutagenic Effects: Negative in vitro assay S. typhimurium

Teratogenic Effects: Not Available

Developmental Toxicity: Developmental Toxicity - Rat - Inhalation

Specific Developmental Abnormalities: Musculoskeletal system.

Reproductive Toxicity: Reproductive toxicity - Rat - Inhalation

Maternal Effects: Other effects. Specific Developmental Abnormalities: Musculoskeletal system.

Reproductive toxicity - Mouse – Oral Effects on Newborn: Stillbirth.

Target Organs: Irritating to eyes.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Dimethyl Succinate

EC50/48-hour/Daphnia=17 mg/l

EC50/72-hour/Algae=46.9 mg/l

LC50/96-hour/bluegill sunfish = 7.5 mg/l

Ecotoxicity: Dipropylene glycol monomethyl ether (34590-94-8)

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - > 10,000 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

Ecotoxicity: 2-propoxyethanol CAS #2807-30-9

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - > 5,000 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates static test LC50 - Daphnia (water flea) - > 5,000 mg/l - 48 h

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h

(OECD Test Guideline 201)

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

This material is not regulated as a hazardous material for transportation.

Section 15: REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 313 No components were identified.

CERCLA The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: No components were identified.

SARA 311/312 Hazard The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Fire hazard, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard

California Prop 65: No components were identified.

Section 16: OTHER SUPPLEMENTAL INFORMATION

Last Revision Date: 19 March 2008

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Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext. 142

Disclaimer:

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