



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Cynamic DSC

Other means of identification

Product Code X000603

Document 000603CG1-4/ 000603CG5/ 000603CG55/ 000603C2L2/ 000603C2L6

Recommended use of the chemical and restrictions on use

Recommended use Detergent/Disinfectant

Details of the supplier of the safety data sheet

Distributor

Cynamic Chemical
1472 Louis Bork Drive
Batavia, IL 60510

Emergency telephone number

24 Hour Emergency Phone Number INFOTRAC: 1-800-535-5053 (NORTH AMERICA)
1-352-323-3500 (INTERNATIONAL)

Company Phone Number 630-761-8770

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-----------------------------------|------------|
| Skin corrosion/irritation | Category 1 |
| Serious eye damage/eye irritation | Category 1 |
| Flammable liquids | Category 4 |

Label elements

Emergency Overview

Danger

Hazard Statements

Causes severe skin burns and eye damage
Combustible liquid



Appearance Transparent

Physical state Liquid

Odor Slight Quaternary

Precautionary Statements - Prevention

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

- Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Precautionary Statements - Response

- Immediately call a POISON CENTER or doctor/physician
- 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
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Immediately call a POISON CENTER or doctor/physician
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- Harmful to aquatic life with long lasting effects
- Unknown Acute Toxicity 0.2% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Chemical Name | CAS-No | Weight-% | Trade Secret |
|---|------------|-----------|--------------|
| Sodium carbonate | 497-19-8 | 1% - 5% | * |
| n-Alkyl (68% C12,32% C14) dimethyl ethylbenzyl ammonium chlorides | 68956-79-6 | 2.25 | * |
| C12-14-16-18 alkylbenzyl dimethylammonium chloride | 68391-01-5 | 2.25 | * |
| Tetrasodium EDTA | 64-02-8 | 0.1% - 2% | * |
| Ethanol | 64-17-5 | 0.1% - 1% | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice

Show this safety data sheet to the doctor in attendance. Call a poison control center or doctor for treatment advice. Have the product containers or label with you when calling a poison control center or doctor, or going for treatment.

Eye contact

Hold eye open & rinse with water for 15-20 min. Remove contact lenses, if present, after 5 min, then continue rinsing eyes. Call poison control center or doctor for advice.

Skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

| | |
|-----------------------------------|---|
| Inhalation | If symptoms are experienced, move victim to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration. Call a poison control center or doctor for further treatment advice. |
| Ingestion | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. . |
| Protection of First-aiders | Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. |

Most important symptoms/effects, acute and delayed

| | |
|----------------------|---|
| Main Symptoms | The most important known symptoms and effects are described in the labelling in section 2 and/or in section 11. |
|----------------------|---|

Indication of immediate medical attention and special treatment needed, if necessary

| | |
|---------------------------|--|
| Notes to physician | Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage. |
|---------------------------|--|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂). Alcohol-resistant foam. Dry chemical.

Unsuitable Extinguishing Media This product contains alcohols which will reduce the effectiveness of normal foam. Use alcohol-resistant foam instead.

Specific hazards arising from the chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|--|
| Personal precautions | Ensure adequate ventilation. Avoid contact with the skin and the eyes. Use personal protective equipment. Avoid breathing in spray mist or vapors. |
|-----------------------------|--|

Environmental precautions

| | |
|----------------------------------|--|
| Environmental precautions | Keep out of waterways. See Section 12 for additional Ecological Information. |
|----------------------------------|--|

Methods and materials for containment and cleaning up

| | |
|--------------------------------|--|
| Methods for Containment | Contain spill with inert material or absorb on clay or rags. |
| Methods for cleaning up | Use mop or absorbent material to clean spill. Floors may be slippery. Use care to avoid falls. |

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on safe handling**

Do not eat, drink or smoke when using this product. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Non-refillable container. Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store this product away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

Incompatible products

Anionic Surfactants.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

Review Section 3 & 4 for Exposure Guidelines.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------|----------------|--|--|
| Ethanol 64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm TWA: 1900 mg/m ³ | IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³ |

NIOSH IDLH: *Immediately Dangerous to Life or Health*

Appropriate engineering controls**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers or an equivalent method of decontamination are close to the work location.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Splash-proof chemical goggles or face shield.

Skin and body protection

Impervious rubber gloves and apron.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

Wash hands and face before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties**Physical state**

Liquid

Appearance

Transparent

Color

Red

Odor

Slight Quaternary

Odor Threshold

No information available

Property**Values****Remarks • Methods****pH**

11.7

± 0.5

Melting/freezing point

No information available

Boiling point/boiling range

~ 100 °C / 212 °F

Flash Point

> 93 °C / > 200 °F

TCC

Evaporation rate

No information available

Similar to water

Flammability (solid, gas)

No information available

Flammability Limits in Air

| | | |
|---|--------------------------|---------------------|
| Upper flammability limit | No information available | |
| Lower flammability limit | No information available | |
| Vapor pressure | No information available | |
| Vapor density | No information available | |
| Relative density | 1.042 0.005 | |
| Water solubility | No information available | Completely soluble. |
| Solubility in other solvents | No information available | |
| Partition coefficient: n-octanol/water | No information available | |
| Autoignition temperature | No information available | |
| Decomposition temperature | No information available | |
| Viscosity, kinematic | No information available | |
| Viscosity, dynamic | No information available | |
| Explosive properties | Not explosive | |
| Oxidizing Properties | No information available | |

Other information

| | |
|---------------------------|------|
| Softening point | N/A |
| Molecular Weight | N/A |
| VOC Content(%) | < 1% |
| Density VALUE | N/A |
| Bulk Density VALUE | N/A |

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Excessive heat.

Incompatible Materials

Anionic Surfactants.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------------|---|
| Product Information | Causes severe skin burns and eye damage |
| Inhalation | Inhalation of vapors in high concentration may cause irritation of the respiratory system. |
| Eye contact | Severely irritating to eyes. |
| Skin contact | Contact causes severe skin irritation and possible burns. |
| Ingestion | Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

| Chemical Name | Oral LD50 | Dermal LD50 | LC50 Inhalation |
|------------------------------|--|-------------|--------------------------------------|
| Sodium carbonate 497-19-8 | = 4090 mg/kg (Rat) | - | = 2300 mg/m ³ (Rat) 2 h |
| Tetrasodium EDTA 64-02-8 | = 1658 mg/kg (Rat) = 10 g/kg (Rat) | - | - |
| Ethanol 64-17-5 | = 7060 mg/kg (Rat) | - | = 124.7 mg/L (Rat) 4 h |

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Mutagenic effects No information available.
Carcinogenicity Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|--------------------|-------|---------|-------|------|
| Ethanol 64-17-5 | A3 | Group 1 | Known | X |

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic toxicity No known effect.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0.2% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

Oral LD50 36,583.00 mg/kg

Mist 38.33 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

76.57% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

Not likely to bioaccumulate.

Mobility

Will likely be mobile in the environment due to its water solubility.

| Chemical Name | Partition coefficient |
|--------------------|-----------------------|
| Ethanol 64-17-5 | -0.32 |

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261). Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on proper disposal of waste product.

Contaminated packaging Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste Status |
|------------------------------|-----------------------------------|
| Sodium carbonate 497-19-8 | Corrosive |
| Ethanol 64-17-5 | Toxic Ignitable |

14. TRANSPORT INFORMATION

DOT Not regulated
Proper shipping name Cleaning Compound, Not Regulated

15. REGULATORY INFORMATION

International Inventories

| | |
|----------------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Does not Comply |
| IECSC | Complies |
| KECL | - |
| PICCS | Complies |
| AICS | Complies |

Legend:

TSCA - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | no |
| Fire Hazard | no |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

U.S. State Right-to-Know Regulations

This product contains substances regulated by state right-to-know regulations.

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

DANGER. KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. remove contaminated clothing and wash clothing before reuses.

16. OTHER INFORMATION

| | | | | |
|--------------------|-------------------------|-----------------------|---------------------------|--|
| <u>NFPA</u> | Health Hazards 2 | Flammability 1 | Instability 0 | Physical and chemical hazards - |
| <u>HMIS</u> | Health hazard 2 | Flammability 1 | Physical hazards 0 | Personal protection X |

Prepared By Cynamic Chemical
1472 Louis Bork Drive
Batavia, IL 60510

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Issue Note

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet