



**CDG 215** 

Date of Revision: March 15, 2022

### **Section 1 - Chemical Product and Company Identification**

Product Name CDG 215

Synonyms CDG 212 Experimental, CDG 212-E

Product UseDegreaserRestriction on UseNone identifiedManufacturer/SupplierCFR Chemicals

38451 Range Road 22

County of Red Deer T4E 2N6

**General Assistance** 1 (877) 269-3419

Emergency Telephone 613-966-6666 (CANUTEC 24 Hour Phone Number)

**Date of Preparation of SDS** October 31, 2019

#### Section 2 – Hazard Identification

**Signal Word** 

**GHS Pictogram(s)** 

Danger





Target Organs Respiratory Irritation

**Hazard Statement:** 

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H401 Toxic to aquatic life.

**Precautionary Statement** 

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources.

No smoking

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, lighting and all material-handling

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Response

P321 Specific treatment: See Response Statements on this label.

P302 + P352 IF ON SKIN: Wash with plenty of water.





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P303 + P361 + P353	IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin
	with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep 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. Continue rinsing.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish

Storage

P403 + P233 Store in well-ventilated place. Keep container tightly closed.

P403 + P235 Store in well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal unit.

**GHS Classification** Flammable liquids (Category 2)

Skin corrosion/irritation (Category2)

Serious eye damage/eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)
Hazardous to the aquatic environment, acute hazard (Category 2)

**HMIS Classification** 

Health Hazard 2
Chronic Health Hazard \*
Flammability 3
Physical Hazards 0

**Potential Health Effects** 

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** Causes skin irritation.

**Eye** Causes serious eye irritation. **Ingestion** May be harmful if swallowed.

# Section 3 - Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	<b>CAS NUMBER</b>
Methyl 9-dodeceonate	9-dodecenoic acid methyl ester	50 – 75%	39202-17-0
Isopropyl Alcohol	2-propanol; IPA; Isopropyl Alcohol; 1- methylethanol; 1-methylethyl alcohol; 2- hydroxypropane; i-propanol; propan-2-ol; sec- propanol.	5 – 15%	67-63-0
Ethoxylated Alcohol	Not Applicable	2 – 5%	68439-46-3
Formaldehyde, polymer with 4- nonylphenol and oxirane	Not Applicable	2 – 5%	30846-35-6





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\* = Various \*\* = Mixture \*\*\* = Proprietary

Chemical Formula Mixture

#### Section 4 - First Aid Measures

**Inhalation** Move victim to fresh air and keep at rest in a position comfortable for breathing.

If it is suspected that vas of vapour is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing

such as collar, tie, belt or waistband.

**Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower lids. Check for and remove contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

**Skin Contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and

shows. Continue to rinse for at least 10 minutes. Get medical attention. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** Get medical attention immediately. Call a poison control centre or physician.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight

clothing such as collar, tie, belt or waistband.

Most Important Symptoms/Effects

Acute No data available.
Delayed No data available.

Note to Physician Treat symptomatically.

## **Section 5 – Fire-Fighting Measures**

Flash Point (°C) 20°C Flash Point Method PMCC

**Auto Ignition Temperature** No data available. .

**Conditions of Flammability** Flammable in the presence of a source of ignition when the temperature is above

the flash point. Keep away from heat/sparks/open flame/ hot surface. No

smoking.

**Extinguishing Media**Use water spray (fog), alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguising Media Water streams.

**Unusual Fire/** 

**Explosion Hazard** No data available.





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**Hazardous Combustion** 

**Products** Carbon oxides. May release flammable gases.

**Special Protective Equipment and** 

**Precautions for Firefighters** Wear appropriate protective equipment and self-contained breathing apparatus

with a full face-piece operated in positive pressure mode.

### Section 6 – Accidental Release Measures

Personal precautions Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

areas. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

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

drains. Discharge into the environment must be avoided.

Methods and materials for

containment and cleaning up Contain free liquid if possible. Pick up by covering with an activated carbon

absorbent or other suitable inert absorbent material (e.g. sand, sawdust, generalpurpose binder). Take up & place in closed containers. Ventilate area & wash spill site after material pickup is complete. Contain and dispose of wash water in

accordance with local regulations.

### Section 7 – Handling and Storage

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away

from sources of ignition - No smoking. Take measures to prevent the build-up of

electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

**Incompatible Conditions** Heat, flames and sparks.

**Incompatible Materials** Strong acids. Strong bases. Strong oxidizers.

# Section 8 – Exposure Controls / Personal Protection

**Occupational Exposure Limits** 

Ingredient Name Exposure Limits

Methyl 9-dodecenoate Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

Not Established

Isopropanol Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

STEL: 400ppm TWA: 200ppm

Ethoxylated Alcohol Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

Not Established

Formaldehyde, polymer with 4nonylphenol and oxirane **ACGIH TLV** 

TWA: 25ppm 8 Hours

**OSHA PEL** 

TWA: 25ppm





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Not available

Personal Eye/face protection Chemical safety glasses with side shields to prevent eye contact. As a general rule

do not wear contact lenses when handling chemicals.

Skin protection Wear chemical resistant gloves, impermeable protective clothing and safety

shoes.

**Respiratory protection** 

**General hygiene** 

Use NIOSH approved respirators and components.

**Considerations** Handle in accordance with good industrial hygiene and safety.

**Specific engineering controls** Use mechanical exhaust or laboratory fumehood to avoid exposure. Safety

shower, eye wash, and fire extinguisher should be present.

### Section 9 – Physical and Chemical Properties

**Physical State Water Solubility** Forms emulsion Liquid

Clear, straw to dark brown **Boiling Point** >80°C Appearance & Odour colour. Characteristic odour.

**Vapour Pressure** Not available **Boiling Point Range** Not available

**Vapour Density** Not available **Melting Point** -30°C **Specific Gravity** 0.90 - 0.94**Freezing Point** -30°C

Partition coefficient (n-No data available **Lower Explosive Limit (LEL)** 

octonal/water)

рΗ No data available

**Upper Explosive Limit (UEL)** Not available Flashpoint (Method) 20°C (PMCC) **Auto Ignition temperature** Not available **Odour Threshold** Not available **Evaporation Rate** Not available

Flammability (Solid, Gas) Not available **Decomposition Temperature** Not available

Viscosity Not available

# Section 10 - Stability and Reactivity

Reactivity Heating may cause fire. Not reactive under normal conditions.

Stable under recommended storage conditions. **Chemical stability** 

Possibility of hazardous reactions

No data available

Conditions to avoid Heat, flames and sparks.

Materials to avoid Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon

oxides. Other decomposition products - No data available

# **Section 11- Toxicological Information**

#### **Information on Likely Routes of Exposure**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin Causes skin irritation.

Eye Causes serious eye irritation. Ingestion May be harmful if swallowed.





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#### Acute and Chronic Toxicity No data available

**Acute toxicity** 

Product/Ingredient Name Result Species Dose Exposure

Methyl-9-dodecenoate LD50 Oral Rat >2000mgkg - LC50 Inhalation gas Rat 73mg/L 4 Hr

Isopropanol LD50 Oral Rat 5045mg/kg -

 LD50 Dermal
 Rabbit
 12870mg/kg

 LD50 Oral
 Rat
 >2000mg/kg

Formaldehyde, polymer

**Ethoxylated Alcohol** 

with 4-nonylphenol and No data available

oxirane

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Not classified.

MutagenicityNot classified.CarcinogenicityNot classified.Reproductive toxicityNot classified.

Specific target organ toxicity - single exposure (Globally Harmonized System)

May cause respiratory tract irritation

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

Not assigned.

**Aspiration hazard** 

Not classified.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

**Short Term Exposure** 

Potential immediate Health Effects

No data available.

Potential Delayed Health Effects

No data available.

**Long Term Exposure** 

Potential immediate Health Effects

Potential Delayed Health Effects

No data available.

Potential Chronic Effects

No data available.

**Synergistic effects** No data available

# Section 12 – Ecological Information

#### **Toxicity**

Product / Ingredient Name	Result	Species	Exposure
Methyl-9-dodecenoate	LC 50 no effects at saturation	Fish – pimephales promelas	72 hr
	conc.		

Fish – Pimephales

Isopropanol Acute LC50 9640mg/L promelas 96 Hr
Acute EC50 5102mg/L Daphnia – Daphnia 24 Hr

magna

Ethoxylated Alcohol No data available Formaldehyde, polymer with 4-nonylphenol and No data available





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oxirane

Persistence and degradability

**Biodegradability** Methyl 9-dodecenoate is readily biodegradable

No data on remainder of product

May cause long-term adverse effects in the environment.

**Bioaccumulative potential** 

**Product/Ingredient Name BCF Potential** LogP<sub>ow</sub>

Methyl-9-dodecenoate 5.85 - 5.96153 L/kg Low potential indicated

Not available Isopropanol Not available Not available Not available Not available **Ethoxylated Alcohol** Formaldehyde, polymer with 4-nonylphenol Not available Not available Not available

and oxirane

Mobility in soil Methyl-9-dodecenoate: Adsorption/desorption coefficient Log Koc 3.93

**PBT and vPvB assessment** No data available Other adverse effects None known.

### Section 13 - Disposal Considerations

**Product** This combustible material may be burned in a chemical incinerator equipped with

an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service

to dispose of this material.

Contaminated packaging Dispose of as unused product.

# **Section 14 - Transportation Information**

CANADA Transportation of Dangerous Goods (TDG)

**Shipping Name** UN1219, Isopropanol Solution, 3. PG II

**Class** 3

**UN Number** UN1219

**Packaging Group:** Ш

Label



**Reportable Quantity** 12345.7 lbs / 5604.9Kg [2177.5 gal / 8242.6L]

Marine Pollutant

Package sizes shipped in quantities less than the product reportable quantity are

not subject to the RW transportation requirements.

**Environmental hazards** 

Transportation in bulk,

if applicable No data available **Special Precautions** No data available





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### **Section 15 – Regulatory Information**

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act)

All components of this product are in compliance with the chemical notification

requirements of the NSN Regulations under CEPA, 1999.

TSCA Inventory Listed

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

### Section 16 - Other Information

**REVISION SUMMARY:** 

Date of Preparation October 31, 2019
Date of Revision March 15, 2022

SDS Prepared by: CFR Lab Manager

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