

Safety Data Sheet


according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: January 15, 2020

1 Identification

- **Product identifier**
- **Trade name:** **FLEXMASTIC™**
FLEXIBLE CONNECTOR ADHESIVE
- **Product code:** #5090
- **Other means of identification:** FLEXMASTIC™ FCA
- **Recommended use and restriction on use**
- **Recommended use:** Adhesives
- **Restrictions on use:** For professional use only.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
DURO DYNE CORPORATION
81 Spence Street
Bay Shore, NY 11706
800-899-3876
- **Emergency telephone number:**
ChemTel Inc.
(800)255-3924 (North America)
+1 (813)248-0585 (International)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Flam. Liq. 4 H227 Combustible liquid.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**

GHS07
- **Signal word:** Warning
- **Hazard statements:**
H227 Combustible liquid.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
- **Precautionary statements:**
P210 Keep away from flames and hot surfaces. – No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash thoroughly after handling.

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P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	If on skin: Wash with plenty of water.
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 center/doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use foam, powder, or carbon dioxide for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

7085-85-0	Ethyl 2-cyanoacrylate	80-100%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 Flam. Liq. 4, H227	

· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Do not pull bonded skin apart. Gently wash with plenty of soap and water. If skin irritation or rash occurs, seek medical attention. Do not remove clothing if it sticks to skin. Contact through clothing (cotton) can cause immediate polymerization, exothermic reaction and burning. Removal of clothing can remove bonded skin. Submerge with water and soak affected area. If lips are accidentally bonded, apply warm soapy water and peel or roll lips apart. Do not try to pull apart! Seek medical treatment if any skin damage has occurred.

· **After eye contact:**

Immediately flush with warm water for at least 15 minutes, and seek medical attention. Cyanoacrylate will bond to eye proteins and cause weeping which will help debond the adhesive. Keep eye covered until debonding is complete, usually within 5 days.

· **After swallowing:**

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Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed:**

Headache

Breathing difficulty

Dizziness

Coughing

Irritating to eyes, respiratory system and skin.

· **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Water fog / haze

Foam

Gaseous extinguishing agents

Fire-extinguishing powder

· **For safety reasons unsuitable extinguishing agents:** Water stream.

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information:**

Eliminate all ignition sources if safe to do so.

Cool endangered containers with water fog.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Use personal protective equipment as required.

Keep away from ignition sources.

Protect from heat

· **Environmental precautions** Avoid release to the environment.

· **Methods and material for containment and cleaning up**

Allow to solidify. Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
 - Use only in well ventilated areas.
 - Avoid breathing mist, vapors, or spray.
 - Keep out of reach of children.
 - Avoid contact with the eyes and skin.
 - Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Flammable gas-air mixtures may be formed in empty containers/receptacles.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
 - Store only in the original receptacle.
 - Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from oxidizing agents.
- **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

7085-85-0 Ethyl 2-cyanoacrylate

TLV (USA)	Short-term value: 5.1 mg/m ³ , 1 ppm Long-term value: 1 mg/m ³ , 0.2 ppm DSEN, RSEN
EL (Canada)	Long-term value: 0.2 ppm S(D); S(R)
EV (Canada)	Long-term value: 0.2 ppm
LMPE (Mexico)	Long-term value: 0.2 ppm

- **Exposure controls**
- **General protective and hygienic measures:**
 - The usual precautionary measures for handling chemicals should be followed.
 - Keep away from foodstuffs, beverages and feed.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
 - Avoid breathing vapors.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**
 - Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
- **Protection of hands:**

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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

· **Body protection:**

Protective work clothing
Apron

· **Limitation and supervision of exposure into the environment**

No relevant information available.

· **Risk management measures** No relevant information available.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **Appearance:**

Form: Liquid

Color: Colorless

· **Odor:** Sharp, irritating

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** -31 °C (-87.8 °F)

· **Boiling point/Boiling range:** 214 °C (417.2 °F)

· **Flash point:** 82.5 °C (180.5 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto-ignition temperature:** 480 °C (896 °F)

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits**

Lower: Not determined.

Upper: Not determined.

· **Oxidizing properties:** Non-oxidizing.

· **Vapor pressure:** Not determined.

· **Density:**

Relative density: 1.04

Vapor density: Not determined.

Evaporation rate: Not determined.

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- **Solubility in / Miscibility with Water:** Insoluble.
Reacts with water.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Other information** No relevant information available.

10 Stability and reactivity

- **Reactivity:**
 - Reacts with water.
 - Reacts with alkali (lyes).
 - Reacts with oxidizing agents.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.
- **Possibility of hazardous reactions**
 - Combustible liquid.
 - Used empty containers may contain product gases which form explosive mixtures with air.
 - Toxic fumes may be released if heated above the decomposition point.
 - Rapid exothermic polymerization will occur in the presence of water or alkalis.
- **Conditions to avoid**
 - Excessive heat and contact with oxidizers.
 - Protect from humidity and water.
- **Incompatible materials**
 - Oxidizers
 - Alkalis.
 - Water
- **Hazardous decomposition products**
 - Under fire conditions only:
 - Carbon monoxide and carbon dioxide
 - Nitrogen oxides (NOx)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Causes eye irritation.
- **Sensitization:** No sensitizing effects known.

· **IARC (International Agency for Research on Cancer):**

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None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.**· Carcinogenicity:** Based on available data, the classification criteria are not met.**· Reproductive toxicity:** Based on available data, the classification criteria are not met.**· STOT-single exposure:** May cause respiratory irritation.**· STOT-repeated exposure:** Based on available data, the classification criteria are not met.**· Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity**· Aquatic toxicity** No relevant information available.**· Persistence and degradability** No relevant information available.**· Bioaccumulative potential:** No relevant information available.**· Mobility in soil:** No relevant information available.**· Other adverse effects** No relevant information available.

13 Disposal considerations

· Waste treatment methods**· Recommendation:**

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· Uncleaned packagings**· Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number**· DOT**

NA1993

· ADR/RID/ADN, IMDG

Not regulated.

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<ul style="list-style-type: none"> · IATA 	UN3334
<ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR/RID/ADN, IMDG · IATA 	Combustible liquid, n.o.s. (Cyanoacrylate esters) Not regulated. Aviation regulated liquid, n.o.s. (Cyanoacrylate esters)

<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	
	
<ul style="list-style-type: none"> · Class · Label 	3 3

<ul style="list-style-type: none"> · ADR/RID/ADN, IMDG · Class 	Not regulated.
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<ul style="list-style-type: none"> · IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	9 9


<ul style="list-style-type: none"> · Packing group · DOT, IATA · ADR/RID/ADN, IMDG 	III Not regulated.
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<ul style="list-style-type: none"> · Environmental hazards · Marine pollutant: 	No
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<ul style="list-style-type: none"> · Special precautions for user 	Not applicable.
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<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
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<ul style="list-style-type: none"> · Transport/Additional information: · DOT 	Classified as combustible under US DOT regulations. Labeling is only required for single packages ≥119 US gal / 450 L.
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<ul style="list-style-type: none"> · IATA 	
	
Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each. Inner packaging containing less than 500 mL do not exhibit the properties of aviation regulated liquids and may be shipped without restriction.	

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **United States (USA)**

· **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed or exempt.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed or exempt.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

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Flam. Liq. 4: Flammable liquids – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

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