

SAFETY DATA SHEET

Malononitrile

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	1070
CAS Number:	109-77-3
EC number:	203-703-2
1.2 SYNONYMS	2-Cyanopropionitrile; 2-Cyano-2-
	propionitrile; 1,3-Dicyanopropane; Propanedinitrile

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP and GHS regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H300 Fatal if swallowed. H311 + H331 Toxic in contact with skin or if inhaled. H317 May cause an allergic skin
	reaction.
YOUR CHEMIC	H319 Causes serious eye irritation.H400 Very toxic to aquatic life.H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements:	P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P310 + P330 IF SWALLOWED: Immediately call a



	DOLOGNI OFNITED/I
	POISON CENTER/doctor. Rinse
	mouth.
	P302 + P352 + P312 IF ON SKIN:
	Wash with plenty of water. Call a
	POISON CENTER/doctor if you feel
	unwell
2.3 Other hazards:	7476
Inhalation:	Coughing, difficulty breathing,
	dizziness, headache, and nausea.
Ingestion:	Nausea, vomiting, abdominal pain,
	dizziness, confusion, and seizures.
Skin Contact:	Redness, irritation, blistering, or
	pain at the site of contact.
Eye contact:	Pain, redness, watering, and
	potential long-term damage to
	vision if not treated promptly.
Chronic Exposure:	Fatigue, headaches, dizziness,
	nausea, liver or kidney impairment,
	and neurological symptoms such
	as tremors or memory loss.
Aggravation of pre-existing	Worsening of existing conditions
conditions:	like asthma or chronic lung
	conditions, increased sensitivity to
	toxic effects on the liver or kidneys.
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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 109-77-3 Malonotrile
Identification number(s):	EC number: 203-703-2

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	Move to fresh air. Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice. If breathing is irregular or stopped, administer artificial



	respiration. Keep respiratory tract clear
After skin contact:	After contact with skin, wash immediately with plenty of soap and water. If on clothes, remove clothes. In the case of skin irritation or allergic reactions see a physician.
After eye contact:	Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye.
After swallowing:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.
4.2 Most important symptoms and effects, both acute and delayed:	no data available
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media	Water spray Alcohol-resistant foam
	Dry chemical
5.2 Special hazards arising from	Avoid generating dust; fine dust
the substance or mixture	dispersed in air in sufficient
TUUN UNEWILL	concentrations, and in the
	presence of an ignition source is a
	potential dust explosion hazard.
	Heating or fire can release toxic
	gas. Do not allow run-off from fire
	fighting to enter drains or water
	courses.
5.3 Advice for firefighters	In the event of fire, wear self-
	contained breathing apparatus.
	Use personal protective
	equipment.



5.4 further information	Use water spray to cool unopened
	containers. Collect contaminated
	fire extinguishing water separately.
	This must not be discharged into
	drains

SECTION 6: Accidental release measures

6.1 Personal precautions,	Use personal protective
protective equipment and	equipment. Avoid dust formation.
emergency procedures	In the case of respirable dust
	and/or fumes, use self-contained
	breathing apparatus and dust
	impervious protective suit
6.2 Environmental precautions:	Prevent product from entering
	drains. Prevent further leakage or
	spillage if safe to do so.
6.3 Methods and material for	Pick up and arrange disposal
containment and cleaning up:	without creating dust. Shovel into
	suitable container for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and
YOUR CHEMIC	eyes. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the



	technological safety standards. To
	maintain product quality, do not
	store in heat or direct sunlight.
Requirements to be met by	no data available
storerooms and receptacles:	
	4000
7.3 Specific end uses	no data available
LOID:	13/0

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	no data available
design of technical facilities:	
8.2 Exposure controls	
Appropriate engineering controls	Refill and handle product only in
	closed system.
Personal protective equipment:	no data available
General protective and hygienic	no data available
measures:	
Respiratory protection:	In the case of dust or aerosol
	formation use respirator with an
	approved filter. Half mask with a
	particle filter P2 (EN 143)
Protection of hands:	Wear protective gloves. Break
	through time : > 480 min The
	selected protective gloves have to
	satisfy the specifications of
	Regulation (EU) 2016/425 and the
Fire must stiem.	standard EN 374 derived from it.
Eye protection:	Safety glasses with side-shields conforming to EN166 Wear face-
IY U U R G R E IVI I G	shield and protective suit for
	abnormal processing problems.
Protection of Body:	Choose body protection according
i recognition body.	to the amount and concentration
	of the dangerous substance at the
	work place. Dust impervious
	protective suit



SECTION 9: Physical and chemical properties

9.1 Information on basic physical	
and chemical properties	
General Information	
Appearance: Form:	molten
Colour:	White
Odour:	mild
pH-value:	11 1110
	3 - 5 Concentration: 90,9 g/l
Melting point/Melting range:	min. 31 °C
Boiling point/Boiling range:	218 - 219 °C
Flammability (solid, gaseous):	no data available
Ignition temperature:	No data available
Decomposition temperature:	No data available
Self-igniting:	No data available
Flash point:	> 86 °C
Danger of explosion:	No data available
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	1 hPa (50 °C)
Density at 20 °C:	1.034 g/cm ³
Relative density:	0.95 g/cm ³
Vapour density:	No data available
Evaporation rate:	Not applicable
Solubility in / Miscibility with-	236.8 g/l
·water at 20 °C:	
Partition coefficient:(n-	No data available
octanol/water)	
Viscosity:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No decomposition if stored and
	applied as directed.
10.2 Chemical stability	Stable under recommended
	storage conditions.
10.3 Possibility of hazardous	Spontaneous
reactions	decomposition/polymerisation may
	occur when in contact with strong
	bases. Spontaneous, violent
	decomposition above
	100 °C possible.
10.4 Conditions to avoid	Heat



10.5 Incompatible materials	Strong acids and strong bases
	Oxidizing agents
10.6 Hazardous decomposition	No decomposition if used as
products	directed.

SECTION 11: Toxicological information

effects Acute Toxicity: LD50 (Rat): 14 mg/kg Method: DOT LD50 (Rat): 1662 mg/kg Method: OECD Test Guideline 402 GLP; yes Skin corrosion/Irritation: Species: Rabbit Exposure time: 4 h Method: DOT Result: Mild skin irritation Serious eye damage/irritation: Species: Rabbit Assessment: Eye irritation Result: Severe eye irritation Result: Severe eye irritation Test Type: Magnusson & Kligman Species: Guinea pig Assessment: May cause sensitisation by skin contact. Method: OECD Test Guideline 406 Result: Sensitising GLP: yes Ingestion: Test Type: Ames test Species: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative GLP: yes No data available Reproductive toxicity: No data available Specific target organ toxicity - repeated exposure: Specific target organ toxicity - repeated exposure: No data available Signs and Symptoms of Exposure: Refer section 2.3 No data available Refer section 2.3 No data available	11.1 Information on toxical arical	
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information Aquatic Toxicity: No data available	Signs and Symptoms of Exposure:	Refer section 2.3
Aquatic Toxicity: No data available	11.2 Additional toxicological	
	information	
Riodegradability: No data available	Aquatic Toxicity:	No data available
no data available	Biodegradability:	No data available



SECTION 12: Ecological information

12.1 Toxicity	LC50 (Pimephales promelas
Aquatic toxicity:	(fathead minnow)): 0,56 mg/l
	Exposure time: 96 h
	EC50 (Daphnia magna (Water
ECT N	flea)): 21,4 mg/l Exposure time: 24 h
	Test Type: Immobilization Method:
	OECD Test Guideline 202 GLP: yes
12.2 Persistence and	No data available
degradability:	
12.3 Bioaccumulative potential:	Test Type: OECD Screening Test
	Result: Not readily biodegradable.
	Biodegradation: 3 % Exposure time:
	28 d Method: OECD Test Guideline
	301E GLP: yes
12.4 Mobility in soil:	No data available
12.5 Other adverse effects	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	Dispose of contents/container in
Recommendation:	accordance with local regulation.
	Contact waste disposal services. Do
	not dispose of waste into sewer.
	The product should not be allowed
	to enter drains, water courses or
	the soil.
Recommended cleansing agents:	Water (with caution); Organic
	Solvents; Isopropyl Alcohol (IPA);
	Commercial Laboratory Cleaning
NUID CHEMIC	Solutions; Absorbent Materials for
TUUN UNLIVITU	Spills; Surface Wipes or Cloths;

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	2647
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Malononitrile
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	6.1



14.4 Packing group · ADR, IMDG, IATA:	II
14.5 Environmental hazards:	no
14.6 Special precautions for user	none

SECTION 15: Regulatory information

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is classified as
regulations/legislation specific	harmful substances
for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances	This substance is listed in the
	directive.
15.2 Chemical safety assessment:	Chemical assessment has been
	carried out under REACH
	regulation.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product

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