

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HYLON N1000 BLACK UV

Revision date: 20.12.2021

Product code: N1000_BK_UV

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General information

First aider: Pay attention to self-protection!
Provide adequate ventilation.

After inhalation

Provide adequate ventilation.
In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.
Consult physician.

After contact with skin

The melted product can cause severe burns.
Do not use force or solvents to remove product incrustations from affected skin areas.
After contact with molten product, cool skin area rapidly with cold water.
Consult physician.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.
Do NOT induce vomiting.
Consult physician.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Burns caused by molten material must be treated clinically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water and Foam. Carbon dioxide (CO₂). Extinguishing powder. Sand.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon dioxide, Carbon monoxide, hydrocarbons. Nitrogen oxides (NO_x).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

High slip hazard because of leaking or spilled product. (Granulate)

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Do not empty into drains.

6.4. Reference to other sections

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Advice on safe handling

Provide adequate ventilation. Equipment with built-in suction provisions.

Advice on protection against fire and explosion

Provide earthing of containers, equipment, pumps and ventilation facilities. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Dust should be exhausted directly at the point of origin. Dust can form an explosive mixture with air.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in a cool place.

Provide adequate ventilation.

Advice on storage compatibility

storage stability:

storage temperature: < 40 °C

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1333-86-4	Carbon black	-	3.5		TWA (8 h)	WEL
		-	7		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1333-86-4	Carbon black			
	Worker DNEL, long-term	inhalation	systemic	1 mg/m ³
	Consumer DNEL, long-term	inhalation	systemic	0,06 mg/m ³
52829-07-9	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate			
	Worker DNEL, long-term	inhalation	systemic	1,27 mg/m ³
	Worker DNEL, long-term	dermal	systemic	1,8 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	0,31 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	0,9 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	0,18 mg/kg bw/day

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PNEC values

CAS No	Substance	
	Environmental compartment	Value
1333-86-4	Carbon black	
	Freshwater	50 mg/l
52829-07-9	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	
	Freshwater	0,004 mg/l
	Freshwater (intermittent releases)	0,007 mg/l
	Marine water	0,00038 mg/l
	Freshwater sediment	5,9 mg/kg
	Marine sediment	0,59 mg/kg
	Micro-organisms in sewage treatment plants (STP)	1 mg/l
	Soil	1,18 mg/kg

Additional advice on limit values

For some additives used in this product exposure limits exist. However, they are incorporated in the product and under normal processing conditions no exposure is to be expected.

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures

When using do not eat, drink or smoke. Do not breathe dust.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable gloves.

Skin protection

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Respiratory protection necessary at: In the case of the formation of dust (half-mask with filter (DIN EN 149).)

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: solid (Granulate)
 Colour: black
 Odour: odourless to mild

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: 255-275 °C
 Initial boiling point and boiling range: not applicable
 Flash point: not applicable

Flammability

Solid: No information available.

Explosive properties

In the case of the formation of dust Dust explosive.

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Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable
Auto-ignition temperature	
Solid:	No information available.
Decomposition temperature:	> 300 °C
Oxidizing properties	
not applicable	
Vapour pressure:	not applicable
Density:	1,13-1,15 g/cm ³
Bulk density:	600 - 800 kg/m ³
Water solubility:	insoluble
Partition coefficient:	not applicable
Viscosity / kinematic:	not applicable
Vapour density:	not applicable

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Temperatures above thermal decomposition.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition productsCarbon dioxide, Carbon monoxide, hydrocarbons. Nitrogen oxides (NO_x).**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
52829-07-9	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate				
	oral	LD50 3700 mg/kg	Rat	Study report (1972)	OECD Guideline 423
	dermal	LD50 > 3170 mg/kg	Rat	Study report (1975)	OECD Guideline 402

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

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.

Further information

When used and handled according to the specifications, this product does not have any harmful effects to human health according to our experience and the information available. Contact the manufacturer in case the material is to be used in special applications such as in contact with food or for hygiene, medical or surgical end-use.

SECTION 12: Ecological information

12.1. Toxicity

Insoluble in: Water.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
52829-07-9	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate					
	Acute fish toxicity	LC50 4,4 mg/l	96 h	Lepomis macrochirus	Study report (1984)	OECD Guideline 203
	Acute algae toxicity	ErC50 0,705 mg/l	72 h	Pseudokirchneriella subcapitata	(2015)	OECD Guideline 201
	Acute crustacea toxicity	EC50 8,58 mg/l	48 h	Daphnia magna	Study report (2000)	OECD Guideline 202
	Crustacea toxicity	NOEC 0,23 mg/l	21 d	Daphnia magna	Study report (2000)	OECD Guideline 211
	Acute bacteria toxicity	(> 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (2014)	OECD Guideline 209

12.2. Persistence and degradability

According to experiences this product is inert and not degradable.

12.3. Bioaccumulative potential

Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
52829-07-9	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	2,25

BCF

CAS No	Chemical name	BCF	Species	Source
52829-07-9	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	638,7	none, estimated by calculation	REACH Registration D

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Material recycling possible. Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): 0%

2004/42/EC (VOC): 0%

National regulatory information

Water contaminating class (D): - - not water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)