

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

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

1.1 Product identifier

Trade name	:	CRACKEROEL 071
Synonyms	:	Ethylene Cracker Residue
Substance name	:	Distillates (petroleum), steam-cracked petroleum distillates
Substance No.	:	270-727-8 (EINECS)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Manufacture; Distribution of substance; Use as intermediate; Formulation; Functional Fluids; Use as a fuel
-----------------	---	---

1.3 Details of the supplier of the safety data sheet

Company

Basell Polyoléfines France SAS
Chemin départemental 54
B.P. 14
13131 Berre l'Etang Cedex
France

Raffinerie de Berre

Registration number

01-2119480186-35-
0004

Telephone

+33 (0) 4 42 74 42 74

MUO Polyolefine GmbH
Berghauser Weg 50
85126 Münchsmünster
Germany

01-2119480186-35-
0007

+49 (0)8402 76329

E-mail address Responsible/issuing person	:	RegulatoryComplianceROP@velogy.com
---	---	------------------------------------

1.4 Emergency telephone number

Basell Polyoléfines France SAS	+33 (0) 4 42 74 42 74
--------------------------------	-----------------------

MUO Polyolefine GmbH	+49 (0) 8402 76112
----------------------	--------------------

Poison Center:

Giftnotruf der Charité
DE: +49 30 19240
24 hours all days

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Germ cell mutagenicity, Category 1B	H340: May cause genetic defects.
Carcinogenicity, Category 1B	H350: May cause cancer.
Specific target organ toxicity - single exposure, Category 1	H370: Causes damage to organs.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements	:	H302	Harmful if swallowed.
		H304	May be fatal if swallowed and enters airways.
		H315	Causes skin irritation.
		H335	May cause respiratory irritation.
		H340	May cause genetic defects.
		H350	May cause cancer.
		H370	Causes damage to organs.
		H372	Causes damage to organs through prolonged or repeated exposure.
	H410	Very toxic to aquatic life with long lasting effects.	

Precautionary statements : **Prevention:**

P201	Obtain special instructions before use.
P260	Do not breathe mist or vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

P308 + P311 IF exposed or concerned: Call a POISON
CENTER/ doctor.
P331 Do NOT induce vomiting.
P391 Collect spillage.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Distillates (petroleum), steam-cracked petroleum distillates
Diluted Pitch, Pyrolysis Oil

EC-No. : 270-727-8 (EINECS)

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Distillates (petroleum), cracked steam-cracked petroleum distillates	68477-38-3 270-727-8	>= 90 - <= 100	Acute toxicity estimate Acute oral toxicity: 2,000 mg/kg 2,000 mg/kg 2,000 mg/kg
Naphthalene	91-20-3 202-049-5	>= 25 - < 30	Acute toxicity estimate Acute oral toxicity: 490 mg/kg 490 mg/kg 490 mg/kg

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : This material may contain 3-7 ring polynuclear aromatic hydrocarbons (PAH).

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version 1.0	Revision Date: 07/02/2026	SDS Number: BEN270	Date of last issue: - Date of first issue: 07/02/2026
----------------	------------------------------	-----------------------	--

Many of the PAHs are known or suspected carcinogens with mutagenic properties.
Always observe self-protection methods
Move out of dangerous area.
Do not leave the victim unattended.
Get medical attention immediately.
Show this material safety data sheet to the doctor in attendance.

- | | |
|-------------------------|---|
| If inhaled | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Keep patient warm and at rest.
If breathing is difficult, give oxygen.
If unconscious, place in recovery position and seek medical advice.
In the event of unconsciousness, apnea or cardiac arrest (no pulse), apply cardiopulmonary resuscitation. |
| In case of skin contact | : Take off contaminated clothing and shoes immediately.
In case of contact, immediately flush skin with soap and plenty of water.
Seek medical attention if ill effect or irritation develops.
Wash contaminated clothing before re-use. |
| In case of eye contact | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention immediately if irritation develops and persists. |
| If swallowed | : Clean mouth with water and drink afterwards plenty of water.
DO NOT induce vomiting. If vomiting does occur, have victim lean forward to reduce risk of aspiration. Get medical attention immediately.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|--|
| Symptoms | : Signs of eye, throat, and respiratory tract irritation (cough and difficulty breathing), CNS depression (fatigue, dizziness, headache, collapse, coma and death) and possible cardiac sensitization may occur after exposure to high vapor concentrations.
High vapor concentrations can cause pulmonary edema.
Hemolysis occurs normally only with exposures to very high levels. |
| Risks | : Harmful if swallowed.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause respiratory irritation.
May cause genetic defects.
May cause cancer. |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

Causes damage to organs.
Causes damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
There is no specific antidote available.
Do NOT induce vomiting.
Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias (irregular beating) in persons exposed to this material.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : SMALL FIRE:
Use water spray, dry chemical, foam, or carbon dioxide.

LARGE FIRES:
Use water spray or fog
Foam.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Eliminate all sources of ignition.
When heated above the flash point, releases flammable vapors.
Sustained fire attack on vessels may result in a Boiling Liquid Expanding Vapour Explosion (BLEVE).
Move containers from fire area if it can be done without risk.
Prevent fire extinguishing water from contaminating surface water or the ground water system.
When fighting a fire, notify environmental authorities if liquid runoff enters sewers or public waters.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighter's protective clothing will only provide limited protection.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not touch or walk through spilled material.
Stop leak if you can do it without risk.
Clean-up to be performed only by trained and properly equipped personnel.
Wear recommended personal protective equipment.
Ensure adequate ventilation.
Eliminate all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Enter area only if strictly necessary. A combustible gas detector can be used to check for flammable gas or vapors.

6.2 Environmental precautions

Environmental precautions : Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Eliminate all sources of ignition.
Prevent entry into waterways, sewers, basements or confined areas.
All equipment used when handling this product must be grounded.
A vapor suppressing foam may be used to reduce vapors.
Soak up with inert absorbent material and dispose of as hazardous waste.
Use clean non-sparking tools to collect absorbed material.
Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep away from all sources of ignition.
Avoid contact with incompatible agents.
Wear recommended personal protective equipment.
Keep container tightly closed when not in use.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
Use only non-sparking tools.
Bond and ground all equipment before transferring this material from one container to another.
Use only in well ventilated areas.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair.
Observe precautions pertaining to confined space entry.

Advice on protection against fire and explosion : Take precautionary measures against static discharges. Keep away from heat and sources of ignition.

Hygiene measures : Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Remove and wash contaminated clothing before re-use.

Fire-fighting class : This material can burn but will not readily ignite.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed when not in use and store in a well-ventilated area. Isolate incompatible materials such as oxidizers. Containers should be clearly labeled. Metal containers used to store this material should be grounded. Recommended materials: For containers, or container linings use mild steel, stainless steel. Avoid static discharge or other sources of ignition. Store in a dry location. Keep away from heat and sources of ignition. Empty containers may contain flammable product residues. Do not weld, solder, drill, cut or perform similar operations on or near containers. Ensure that all relevant regulations regarding explosive atmosphere, and handling and storage facilities of flammable products are followed. Store closed drums with bung in up position.

Storage class (TRGS 510) : 12

7.3 Specific end use(s)

Specific use(s) : See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Naphthalene	91-20-3	TWA	10 ppm 50 mg/m ³	91/322/EEC
Further information: Indicative				
		AGW (Vapour and aerosols, inhalable fraction)	0.4 ppm 2 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category): 4;(I)				
Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

8.2 Exposure controls

Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor.
The selected goggles or glasses must satisfy the European norm standard EN 166.

Hand protection

Remarks : Wear chemical resistant gloves such as: Glove material fluoroelastomer; material thickness 0.4 mm; break through time $\geq$ 480 min. Gloves must be replaced after 8 hours of wear. The selected protective gloves have to satisfy the standard EN 374 derived from it. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection : When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn.
Depending on risk assessment, the selected protective clothing must satisfy EU standard EN 13034, which describes clothing offering limited 8-hour protection against splashes, or, EU standard EN 14605, which describes liquid- or spray-tight clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Use PPE that is chemical resistant to the product and prevents skin contact.
Fire retardant and anti-static clothing is appropriate for routine occupational use.

Respiratory protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use.
Check with respiratory protective equipment suppliers.
Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive-pressure breathing apparatus.
Where air-filtering respirators are suitable, select an appropriate combination of mask and filter conforming to EU standards EN 140 and EN 14387 respectively.
Select a type A filter or better.

Protective measures : Selection of appropriate personal protective equipment should be based on a risk assessment which includes an evaluation of the performance characteristics of the protec-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version 1.0	Revision Date: 07/02/2026	SDS Number: BEN270	Date of last issue: - Date of first issue: 07/02/2026
----------------	------------------------------	-----------------------	--

tive equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls

Soil	:	Prevent entry into waterways, sewers, basements or confined areas.
Water	:	Prevent further leakage or spillage if safe to do so. Maritime spillages should be dealt with according to a Ship-board Oil Pollution Emergency Plan (SOPEP), as required by MARPOL Annex1 Regulation 26. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid (20 °C, 1,013 hPa)
Colour	:	dark brown, to, black
Odour	:	aromatic
Odour Threshold	:	No value available.
Melting point/range	:	-63 - 43 °C
Boiling point/boiling range	:	130 - 330 °C UVCB substance
Flammability	:	study scientifically unjustified
Flash point	:	65 - 110 °C
Auto-ignition temperature	:	453 - 480 °C
Decomposition temperature	:	Thermal decomposition may produce oxides of carbon and other toxic gases and liberate heat and pressure.
pH	:	no data available
Viscosity	:	
Viscosity, kinematic	:	666.8 mm ² /s (20 °C)
Solubility(ies)	:	
Water solubility	:	25 - 41 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version 1.0	Revision Date: 07/02/2026	SDS Number: BEN270	Date of last issue: - Date of first issue: 07/02/2026
----------------	------------------------------	-----------------------	--

Partition coefficient: n-octanol/water : log Pow: > 3 - < 6.5

Density : 1.005 - 1.090 g/cm³
Relative

Relative vapour density : No Data Available.

9.2 Other information

Explosives : study scientifically unjustified

Oxidizing properties : study scientifically unjustified

Evaporation rate : no data available

Surface tension : 72.1 mN/m, 20 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Will not occur.

10.4 Conditions to avoid

Conditions to avoid : Heat, sparks, open flame, and other ignition sources.

10.5 Incompatible materials

Materials to avoid : Incompatible with strong acids and oxidizing agents.
Halogenated compounds

10.6 Hazardous decomposition products

Carbon oxides (CO, CO₂)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 989.9 mg/kg
Method: Calculation method

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Acute oral toxicity : LD50 (Rat): 2,000 mg/kg
Acute toxicity estimate: 2,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): 28.1 mg/l
Exposure time: 4 HOURS
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Naphthalene:

Acute oral toxicity : LD50 (Rat): 490 mg/kg
Acute toxicity estimate: 490 mg/kg
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): > 0.4 mg/l
Exposure time: 4 HOURS
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 16,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Result : Skin irritation

Naphthalene:

Result : No skin irritation

Serious eye damage/eye irritation

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

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Assessment : No eye irritation

Naphthalene:

Result : No eye irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

Respiratory or skin sensitisation

Skin sensitisation

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

Respiratory sensitisation

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

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Assessment : Did not cause sensitization on laboratory animals.

Naphthalene:

Result : Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

May cause genetic defects.

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Germ cell mutagenicity- Assessment : Presumed to induce heritable mutations in the germ cells of humans.

Naphthalene:

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

May cause cancer.

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Carcinogenicity - Assessment : Human carcinogen.

Naphthalene:

Carcinogenicity - Assessment : Suspected human carcinogens

Reproductive toxicity

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

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Reproductive toxicity - Assessment : Not classified

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version 1.0	Revision Date: 07/02/2026	SDS Number: BEN270	Date of last issue: - Date of first issue: 07/02/2026
----------------	------------------------------	-----------------------	--

Naphthalene:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity
No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.
Causes damage to organs.

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Naphthalene:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Target Organs : Blood
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Naphthalene:

Target Organs : nasal cavity
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Aspiration hazard

May be fatal if swallowed and enters airways.

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Naphthalene:

Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

11.2 Information on other hazards

Endocrine disrupting properties

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

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l
Exposure time: 96 HOURS

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.4 mg/l
aquatic invertebrates Exposure time: 48 HOURS

Toxicity to algae/aquatic : ErC50 (algae): 2.1 mg/l
plants Exposure time: 72 HOURS

NOEC (algae): 0.18 mg/l
Exposure time: 72 HOURS

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Naphthalene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6 mg/l
Exposure time: 96 HOURS
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.16 mg/l
aquatic invertebrates Exposure time: 48 HOURS
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 2.96
plants mg/l
Exposure time: 24 HOURS

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version 1.0	Revision Date: 07/02/2026	SDS Number: BEN270	Date of last issue: - Date of first issue: 07/02/2026
----------------	------------------------------	-----------------------	--

Toxicity to microorganisms	:	IC50 (Nitrosomonas sp.): 29 mg/l Exposure time: 24 HOURS
Toxicity to fish (Chronic toxicity)	:	NOEC: 0.45 mg/l Exposure time: 43 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.6 mg/l Exposure time: 125 d Species: Daphnia pulex (Water flea)

Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Biodegradability	:	Result: Not rapidly biodegradable
------------------	---	-----------------------------------

Naphthalene:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: > 74 % Exposure time: 28 d
------------------	---	---

12.3 Bioaccumulative potential

Components:

Distillates (petroleum), cracked steam-cracked petroleum distillates:

Bioaccumulation	:	Remarks: Not applicable
-----------------	---	-------------------------

Naphthalene:

Bioaccumulation	:	Bioconcentration factor (BCF): 23 - 168 Remarks: This material is not expected to bioaccumulate.
-----------------	---	---

Partition coefficient: n-octanol/water	:	log Pow: 3.4
--	---	--------------

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of
------------	---	--

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version 1.0	Revision Date: 07/02/2026	SDS Number: BEN270	Date of last issue: - Date of first issue: 07/02/2026
----------------	------------------------------	-----------------------	--

0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal.
Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes.
Contaminated product, soil or water should be considered dangerous due to potential evolution of flammable vapor.
Proper grounding procedures to avoid static electricity should be followed.
The product should not be allowed to enter drains, water courses or the soil.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082

14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethylene Cracker Residue)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethylene Cracker Residue)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

IMDG : N.O.S.
(Ethylene Cracker Residue)
: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Ethylene Cracker Residue)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 9	N2, CMR, S
ADR	: 9	
RID	: 9	
IMDG	: 9	

14.4 Packing group

ADN
Packing group : III
Classification Code : M6
Labels : 9 (N2, CMR, S)

ADR
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : -

RID
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Remarks : Toxic to the Aquatic Environment Mark Required

14.5 Environmental hazards

ADN
Environmentally hazardous : yes

ADR
Environmentally hazardous : yes

RID
Environmentally hazardous : yes

IMDG

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Ship type	: N.A. MARPOL ANNEX I
Pollution category	: N.A.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 28: Distillates (petroleum), cracked steam-cracked petroleum distillates
--	--

Number on list 75
If you intend to use this product as tattoo ink, please contact your vendor.

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
--	------------------

Water hazard class (Germany)	: WGK 3 highly hazardous to water Classification according to AwSV, Annex 1 (5.2)
------------------------------	--

Volatile organic compounds	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable
----------------------------	--

The components of this product are reported in the following inventories:

TCSI	: Not in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: None of the components of this product are on the Canadian DSL, but all are on the NDSL

Distillates (petroleum), cracked steam-cracked petroleum

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version 1.0	Revision Date: 07/02/2026	SDS Number: BEN270	Date of last issue: - Date of first issue: 07/02/2026
----------------	------------------------------	-----------------------	--

	distillates
ENCS	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
REACH	: If the product has been purchased from Rotterdam Olefins & Polyolefins B.V., we confirm that the chemical substances in this product have been registered under REACH, in accordance with the deadlines set forth in REACH. (Regulation (EU) No. 1907/2006).
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory
CH BAGREG	: Not in compliance with the inventory
MXINSQ	: Not in compliance with the inventory
NCI	: Not in compliance with the inventory
UKREACH	: Not in compliance with the inventory
KKDIK	: Not in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Flam. Sol.	: Flammable solids
Muta.	: Germ cell mutagenicity
Skin Irrit.	: Skin irritation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
91/322/EEC	: Europe. Commission Directive 91/322/EEC on establishing indicative limit values
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



CRACKEROEL 071

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/02/2026	BEN270	Date of first issue: 07/02/2026

91/322/EEC / TWA : Limit Value - eight hours
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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.

DE / EN