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

1.1. Product identifier

Product form : Mixture
Trade name : VIEROL AG
UFI : 0090-J06C-200W-MQG7
Product codes : **V60-0529 & V60-0530**

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

1.2.1. Relevant identified uses

Industrial/professional use specifications : For professional use only

1.2.2. Uses not recommended

No further information available

1.3. Information concerning the supplier of the safety data sheet

VIEROL AG
Karlstraße 19
26123, Oldenburg/ Germany
Tel : +49 441 210 20 - 0
Info@vierol.de

1.4. Emergency telephone number

Country/Region	Emergency number
Spain	**112:** European emergency number, available throughout the European Union for emergencies and first aid to individuals.

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to regulations (CE) N° 1272/2008 [CLP]

Aspiration hazard, category 1 H304
Full text of H and EUH statements: see section 16

Adverse physicochemical effects on human health and the environment

May be fatal if swallowed and enters the respiratory tract.

2.2. Labelling elements

Labelling in accordance with regulations (CE) N° 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Warning statement (CLP) : Danger

Contains : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclic; Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways. : P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor

Precautionary statements (CLP)

P331 - Do NOT induce vomiting.
P405 - Store locked up.
P501 - Dispose of contents/container to a hazardous or special waste collection point in accordance with local, regional, national and/or international regulations.

Phrases EUH : EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Does not contain PBT and/or vPvB substances ≥ 0.1% assessed in accordance with Annex XIII of the REACH Regulation.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to regulations (CE) N° 1272/2008 [CLP]
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	N° CAS: 64742-47-8 N° CE: 926-141-6 N° Index: 649-422-00.2 N° REACH: 01-2119456620-43	≤ 90,8	Asp. Tox. 1, H304
Cerium(3+) neodecanoate	N° CAS: 68084-49-1 N° CE: 268-440-8	1,4	Aquatic Chronic 2, H411
naphthalene substance with Community occupational exposure limit values	N° CAS: 91-20-3 N° CE: 202-049-5 N° Index: 601-052-00-2	≤ 0,1	Flam. Sol. 2, H228 Acute Tox. 4 (par voie orale), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
maleic anhydride	N° CAS: 108-31-6 N° CE: 203-571-6 N° Index: 607-096-00-9	< 0	Acute Tox. 4 (par voie orale), H302 STOT RE 1, H372 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits (%)**
maleic anhydride	N° CAS: 108-31-6 N° CE: 203-571-6 N° Index: 607-096-00-9	(0,001 ≤ C ≤ 100) Skin Sens. 1A; H317

Full text of H and EUH statements: see section 16

SECTION 4: First aid

4.1. Description of first aid measures

General first aid : Call a doctor immediately.

First aid after inhalation : Move the person outside and keep them in a position where they can breathe comfortably.

First aid after skin contact : Wash skin with plenty of water.

First aid after eye contact : Rinse eyes with water as a precaution.

First aid after ingestion : Do not induce vomiting. Call a doctor immediately.

Self-protection for the first aider : First-aid responders should ensure their own protection and use the recommended personal protective equipment (see section 8).

4.2. Main symptoms and effects, acute and delayed

Symptoms/effects after inhalation : None under normal conditions.

Symptoms/effects after skin contact : None under normal conditions.

Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : Risk of pulmonary oedema.

4.3. Indication of any immediate medical care and special treatment required

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Fire extinguishing equipment

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a strong water jet.

5.2. Specific hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : Possible release of toxic fumes.

5.3. Advice for firefighters

Firefighting instructions : Fight the fire from a safe distance and from a protected location. Do not enter the fire zone without protective equipment, including respiratory protection.

Protection in case of fire : Do not intervene without suitable protective equipment. Self-contained breathing apparatus. Full body protection.

SECTION 6: Measures to be taken in the event of accidental release

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop the leak if it can be done safely. Notify the authorities if the product enters drains or public waterways. Absorb any spilled substance to prevent it from attacking surrounding materials.

6.1.1. For non-first-aiders

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate the spill area.

6.1.2. For first-aiders

Protective equipment	: Do not intervene without suitable protective equipment. For further information, refer to Section 8: 'Exposure controls/personal protection'.
Emergency procedures	: Keep unnecessary personnel away. Plug the leak if it can be done safely.

6.2. Environmental protection precautions

Avoid release into the environment.

6.3. Containment and cleaning methods and equipment

For retention	: Absorb any spilled product with sand or earth. Contain the spilled material by damming it or using absorbent materials to prevent it from flowing into drains or waterways. Stop the leak, if possible without taking any risks.
Cleaning processes	: Absorb spilled liquid with absorbent material.
Other information	: Dispose of solid material or residue at an authorised centre.

6.4. Reference to other sections

For further information, please refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions to be taken for safe handling

Additional hazards during processing	: For further information, refer to Section 8: 'Exposure controls/personal protection'.
	: Ensure good ventilation of the work area. Wear personal protective equipment.
Precautions for safe handling	: Do not eat, drink or smoke when handling this product. Wash hands after handling.
Hygiene measures	: Avoid contact with skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Store in a cool, well-ventilated place away from heat.
Storage conditions	: Keep under lock and key.
Packaging materials	: Always store the product in packaging of the same type as the original packaging.

7.3. Specific end use(s)

No further information available

SECTION 8: Exposure controls/personal protection

8.1. Control settings

8.1.1 National occupational exposure and biological limit values

naphthalene (91-20-3)	
UE - Indicative occupational exposure limit value (IOEL)	
Local name	Naphthalene
IOEL TWA	50 mg/m³
	10 ppm
Note	(Year of adoption 2010)
Regulatory reference	COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations

naphthalene (91-20-3)	
France - Occupational exposure limit values	
Local name	Naphthalene
VLEP 8h (OEL TWA)	50 mg/m³
	10 ppm
Note	Recommended/permitted values. Category 2 carcinogen.
Regulatory reference	Circular from the Ministry of Labour (ref.: INRS ED 6443, 2022; Tool 65)

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
France - Occupational exposure limit values	
VLEP 8h (OEL TWA)	1000 mg/m³ /8h
	165 ppm
VLEP CT (OEL STEL)	1500 mg/m³ /15mn

maleic anhydride (108-31-6)	
France - Occupational exposure limit values	
VLEP CT (OEL STEL)	1 mg/m³ /15mn

8.1.2. Recommended follow-up procedures

No further information available

8.1.3. Formed atmospheric contaminants

No further information available

8.1.4. DNEL and PNEC

No further information available

8.1.5. Control strip

No further information available

8.2. Exposure controls

8.2.1. Appropriate technical checks

Appropriate technical checks:
Ensure good ventilation of the workstation.

8.2.2. Personal protective equipment

Personal protective equipment:
Wear the recommended personal protective equipment.
Symbol(s) for personal protective equipment:



8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear appropriate protective clothing.

Hand protection:
Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear appropriate respiratory equipment.

8.2.2.4. Protection against thermal hazards

No further information available

8.2.3. Exposure controls related to environmental protection

Exposure controls related to environmental protection: Avoid release into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on essential physical and chemical properties

Physical state	: Liquid
Colour	: Dark brown.
Odour	: No data available
Odour threshold	: No data available
pH	: ≈ 6.6
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Not applicable
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: ≈ 0.797
Partition coefficient n-octanol/water (Log Pow)	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: ≈ 3.21 mm²/s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
	: No data available

9.2. Further information

No further information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions of use, storage, and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions are known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No further information available

10.6. Hazardous decomposition products

No hazardous decomposition products should be generated under normal conditions of storage and use.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Uncategorized
Acute toxicity (dermal) : Uncategorized
Acute toxicity (inhalation) : Uncategorized

naphthalene (91-20-3)	
DL50 oral rat	≈ 490 mg/kg
DL50 rat skin	> 2500 mg/kg
DL50 rabbit skin	> 2000 mg/kg
CL50 Inhalation - Rat [ppm]	> 0,34 ppm/1h

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
DL50 oral rat	> 5000 mg/kg OECD 401
DL50 rabbit skin	> 5000 mg/kg OECD 402
CL50 Inhalation - Rat	> 5000 mg/l OECD 403

Cerium(3+) neodecanoate (68084-49-1)	
DL50 oral rat	2800 mg/kg de poids corporel Animal: rat, Guideline: other:, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2360 - 3320

maleic anhydride (108-31-6)	
DL50 oral rat	400 mg/kg
DL50 rabbit skin	2620 mg/kg

Skin corrosion/irritation : Uncategorized
pH: ≈ 6,6

Serious eye damage/eye irritation : Uncategorized
pH: ≈ 6,6

Respiratory or skin sensitisation : Uncategorized
Germ cell mutagenicity : Uncategorized
Carcinogenicity : Uncategorized
Reproductive toxicity : Uncategorized
Specific target organ toxicity (STOT) (single exposure) : Uncategorized
Specific target organ toxicity (STOT) (repeated exposure) : Uncategorized

maleic anhydride (108-31-6)	
Specific target organ toxicity (STOT) (repeated exposure)	Proven risk of serious effects on organs (respiratory system) following repeated exposure or prolonged exposure (inhalation).

Aspiration hazard : May be fatal if swallowed and enters the respiratory tract.

CERINE4MOBILE	
Viscosity, kinematic	≈ 3,21 mm²/s

SECTION 12: Environmental information

12.1. Toxicity

Ecology - general : This product is not considered toxic to aquatic organisms and does not cause long-term adverse effects in the environment.

Hazards to the aquatic environment, short term (acute) : Not classified

Hazards to the aquatic environment, long term (chronic) : Not classified

naphthalene (91-20-3)	
CL50 - Fish [1]	≈ 0,51 mg/l
CE50 - Shellfish [1]	≈ 3,4 mg/l

Cerium(3+) neodecanoate (68084-49-1)	
CE50 72h - Seaweed [1]	0,63 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
CE50 72h - Seaweed [2]	1,1 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

maleic anhydride (108-31-6)	
CL50 - Fish [1]	230 ppm /96h

12.2. Persistence and degradability

Persistence and degradability	Rapidly degradable

naphtalène (91-20-3)	
Persistence and degradability	Rapidly degradable

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Persistence and degradability	Easily biodegradable.
Biodegradation	69 % 28 jours OCDE 301F

Cerium(3+) neodecanoate (68084-49-1)	
Persistence and degradability	Rapidly degradable

maleic anhydride (108-31-6)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulation potential

No further information available

12.4. Mobility in the ground

No further information available

12.5. Results of PBT and vPvB assessments

No further information available

12.6. Other adverse effects

No further information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulations	: Disposal must be carried out in accordance with legal requirements.
Waste treatment methods	: Dispose of contents/container in accordance with the sorting instructions of the approved collector.
Recommendations for waste water disposal	
Recommendations for product/packaging treatment	: Disposal must be carried out in accordance with legal requirements.
Additional information	: Disposal must be carried out in accordance with legal requirements.
Information on environmentally friendly waste	
	: Do not reuse empty containers.
	: Waste from this product must be considered as hazardous as the product itself, with the same potential risks to the environment. Precautions for handling and treating waste are the same as for the product itself.

SECTION 14: Transport information

In compliance with: ADR / IMDG / IATA / ADN / RID

14.1 ONU number

N° ONU (ADR)	: Not applicable
N° ONU (IMDG)	: Not applicable
N° ONU (IATA)	: Not applicable
N° ONU (ADN)	: Not applicable
N° ONU (RID)	: Not applicable

14.2. UN official transport designation

Official transport designation (ADR)	: Not applicable
Official transport designation (IMDG)	: Not applicable
Official transport designation (IATA)	: Not applicable
Official transport designation (ADN)	: Not applicable
Official transport designation (RID)	: Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

14.5. Environmental hazards

Other information : No further information available.

14.6. Special precautions to be taken by the user

Land transport
Not applicable

Sea transport
Not applicable

Air transport
Not applicable

River transport
Not applicable

Rail transport
Not applicable

14.7. Bulk transport in accordance with Annex II of the Marpol Convention and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Regulations/legislation specific to the substance or mixture in terms of safety, health and the environment

15.1.1. EU regulations

Annex XVII of REACH (Restriction List)

Does not contain any substances listed in Annex XVII of REACH (Restriction Conditions)

Annex XIV of REACH (Authorisation List)

Does not contain any substances listed in Annex XIV of REACH (Authorisation List)

REACH Candidate List (SVHC)

Does not contain any substance(s) listed in the REACH Candidate List

PIC Regulation (EU 649/2012, prior informed consent)

Does not contain any substances listed in the PIC list (EU Regulation 649/2012 concerning the export and import of hazardous chemicals).

POP Regulation (EU 2019/1021, persistent organic pollutants)

Does not contain any substances listed in the POPs list (EU Regulation 2019/1021 on persistent organic pollutants)

Ozone Regulations (2024/590)

Does not contain any substances listed in the list of ozone-depleting substances (Regulation (EC) No 2024/590 on ozone-depleting substances)

Council Regulation (EC) on the control of dual-use goods

Does not contain any substances subject to the COUNCIL REGULATION (EC) on the control of dual-use goods.

Regulation on Explosive Precursors (EU 2019/1148)

Does not contain any substance(s) listed in the list of explosives precursors (EU Regulation 2019/1148 on the marketing and use of explosives precursors).

Drug Precursors Regulation (EC 273/2004)

Does not contain any substance(s) listed in the list of drug precursors (Regulation (EC) No 273/2004 on the manufacture and placing on the market of certain substances used for the illicit manufacture of narcotic drugs and psychotropic substances).

15.1.2. National

guidelines Finland

France

Occupational diseases	
Code	Description
RG 66	Occupational rhinitis and asthma

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:	
ASOSH	American Society for Occupational Health, United
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Estimated Toxicity
BCF	Bioconcentration Factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
N° CAS	Chemical Abstracts Service registry number
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived minimum effect level
DNEL	Derived no-effect level
N° CE	European Community number
CE50	Median effective concentration
ED	Endocrine disruptor
EN	European standard
EWC	European Waste Catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
CL50	Lethal concentration for 50% of the test population (median lethal concentration)
LD50	Median lethal dose for 50% of the test population (median lethal dose
LOAEL	Lowest observed adverse effect level
Log Kow	n-octanol/water partition coefficient (Log Kow)
Log Pow	n-octanol/water partition coefficient (Log Pow)
MAC	Maximum allowable concentration in the workplace

Abbreviations and acronyms:	
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
N.O.S.	Not specified elsewhere
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational exposure limit
OSHA	Occupational Safety and Health Administration, a federal agency of the United States Department of Labour
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no-effect concentration(s)
PPE	Personal protective equipment
RID	International Regulations concerning the Transport of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Wastewater treatment plant
FT	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median tolerance limit
TWA	Time-weighted average
COV	Composés organiques volatiles
vPvB	Volatile organic compounds
UFI	Unique formulation identifier

Full text of H and EUH phrases:	
Acute Tox. 4 (oral)	Acute toxicity (oral), category 4
Aquatic Acute 1	Harmful to the aquatic environment – Acute hazard, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic hazard, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic hazard, category 2
Asp. Tox. 1	Aspiration hazard, category 1
Carc. 2	Carcinogenicity, category 2
Eye Dam. 1	Serious eye damage/eye irritation, category 1
Flam. Sol. 2	Flammable solids, category 2
Resp. Sens. 1	Respiratory sensitisation, category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Subcategory 1B
Skin Sens. 1A	Skin sensitisation, Category 1A
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.

Full text of H and EUH phrases:	
H317	May cause skin allergy.
H318	Causes serious eye damage.
H334	May cause allergic or asthma symptoms or breathing difficulties if inhaled.
H351	Likely to cause cancer.
H372	Proven risk of serious effects on organs following repeated exposure or prolonged exposure.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic organisms, causes long-term adverse effects.
H411	Toxic to aquatic organisms, causes long-term adverse effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and describes the product solely for health, safety and environmental purposes. It should therefore not be interpreted as guaranteeing any specific property of the product.