

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019
Version: 11
Language: en-GB,IE
Date of print: 5/2/2019

Pinol

Page: 1 of 12

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

1.1 Product identifier

Trade name: Úã [|
REACH registration No.: Á
CAS-Number: Á
EC-number: Á

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

Identified uses:

Consumer:

Use of fragranced products, cosmetics, detergents, laboratory chemicals

Application of coatings and inks, lubricant, Chemicals for the construction industry

Professional and Consumer product use leading to embedding substances into a matrix.

Uses advised against: None known

1.3 Details of the supplier of the safety data sheet

Company name: S\^ã^: ^ãpæ | -æ^} Å{ àP
Street/POB-No.: Sæ•^ { >@^ Å
Postal Code, city: HFFJÍ Åæ •] !ã *^ ÅÖ^!{ æ ^
WWW: www.\ | ^ã^: ^ãde
E-mail: info@ \ | ^ã^: ^ãde
Telephone: +49 (0) í € €í €Á €Á í €
Telefax: +49 (0) í € €í €Á €Á í €
Dept. responsible for information:
Telephone: +49 (0) í € €í €Á €Á í € , E-mail info@ \ | ^ã^: ^ãde

1.4 Emergency telephone number

Kreidezeit Naturfarben GmbH, phone +49-5060-6080650 (only during opening times)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019

Version: 11

Language: en-GB,IE

Date of print: 5/2/2019

Pinol

Page: 2 of 12

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 3; H226 Flammable liquid and vapour.
Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P262	Do not get in eyes, on skin, or on clothing.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains orange terpenes.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019
Version: 11
Language: en-GB,IE
Date of print: 5/2/2019

Pinol

Page: 3 of 12

2.3 Other hazards

Vapours form explosive mixtures with air.
Spontaneous ignition possible through autoxidation of cloths soaked in the product.
Heating causes rise in pressure with risk of bursting.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.

During processing and use vapors are released.

For risks which have to be observed thereby, see section 7: Handling, section 8:

Exposure controls / personal protection and section 11: Toxicology.

Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances

Chemical characterisation: T 3c | ^ Á - Á æ | æ Á •• ^ } cæ Á þ

CAS-Number: Á

EC-number: Á

UVCB substance - Information on ingredients:

Ingredient	Designation	Content	Classification
ÓÖÈ ÆG È FÈ È ÓÉJÁ JÌ JÈ È	Sä [] ^}	ÀÀÀÀÀÀÀÀÀÀ ÆÁ	Öæ ÈSä ÈLÁ PG ÈÀ à ÁÆÇLÁ PHÍ ÈÁ ÀÀÀÀÀÀÀÀÀÀ à Á ^} • ÈFLÁ PHÍ ÈÅ ÆÁÖÈ c FLÁPI ÈÈÁ ÀÀÀÀÀÀÀÀÀÀ ÆÁÖ@ [] ÆFLÁPI ÈÈ
ÓÖÈ ÆG È FÈ È ÓÉJÁ Ì È ÈÈ	Sä æ [] []	ÀÀÀÀÀÀÀÀÀÀ ÆÁ	Û à ÁÆÇLÁ PHÍ ÈÖ ^ ÁÆÇLÁ PHÍ ÈÀ à Á ^} • ÈFLÁ PHÍ ÈÁ ÓÖÈ ÈÆÈFI ÈÈ È ^} c È È È ÀÀÀÀÀÀÀÀÀÀ ÆÁ ÀÀÀÀÀÀÀÀÀÀ à ÁÆÇLÁ PHÍ ÈÖ ^ ÁÆÇLÁ PHÍ ÈÈ

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information:** Take off immediately all contaminated clothing.
In case of accident or if you feel unwell, seek medical advice immediately.
- In case of inhalation:** Provide fresh air. Seek medical treatment in case of troubles.
If victim is at risk of losing consciousness, position and transport on their side.
- Following skin contact:** After contact with skin, wash immediately with soap and plenty of water.
Do not use any organic solvents.
- After eye contact:** Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.
- After swallowing:** Do NOT induce vomiting. Danger of aspiration!
Immediately get medical attention.
Never give anything by mouth to an unconscious person.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019

Version: 11

Language: en-GB,IE

Date of print: 5/2/2019

Pinol

Page: 4 of 12

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.
Causes skin irritation. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam, extinguishing powder, carbon dioxide, Water spray jet.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour.

With air, vapours form potentially explosive mixtures, which are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.

In case of fire may be liberated: carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Hazchem-Code: 3Y

Use fine water spray to cool endangered containers.

Heating causes rise in pressure with risk of bursting.

You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. Avoid contact with the substance. Eliminate all ignition sources if safe to do so. Avoid open flames.

Provide adequate ventilation.

Wear personal protection equipment. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.

Store in special closed containers and dispose of according to ordinance.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019

Version: 11

Language: en-GB,IE

Date of print: 5/2/2019

Pinol

Page: 5 of 12

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Wear suitable protective clothing. Avoid contact with skin and eyes.
Do not breathe vapour. Provide adequate ventilation.

Precautions against fire and explosion:

Vapours form explosive mixtures with air.
Avoid open flames. Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store in well-filled containers, protected from light. Keep container dry.
Keep container tightly closed in a cool, well-ventilated place.
Keep only in the original container.
Provide solvent resistant flooring.

Hints on joint storage: keep away from strong bases, strong acids and oxidizing agents.

Further details: Store in areas not accessible to outsiders.

7.3 Specific end use(s)

see section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

DNEL/DMEL: DNEL Long-term, workers, dermal, systemic: 8.89 mg/kg bw/d.
DNEL Short-term, workers, dermal, local: 185.8 µg/cm²
DNEL Long-term, workers, inhalative, systemic: 31.1 mg/m³
DNEL Long-term, consumers, oral, systemic: 4.44 mg/kg bw/d.
DNEL Long-term, consumers, dermal, systemic: 4.44 mg/kg bw/d.
DNEL Short-term, consumers, dermal, local: 92.9 µg/cm²
DNEL Long-term, consumers, inhalative, systemic: 7.78 mg/m³

PNEC: PNEC water (freshwater): 5.4 µg/L.
PNEC water (marine water): 0.54 µg/L.
PNEC water (intermittent release): 5.77 µg/L.
PNEC sediment (freshwater): 1.3 mg/kg dwt.
PNEC sediment (marine water): 0.13 mg/kg dwt.
PNEC soil: 0.261 mg/kg dwt.
PNEC sewage treatment plant: 2.1 mg/L.

8.2 Exposure controls

Provide for good room ventilation, suctioning/venting.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019

Version: 11

Language: en-GB,IE

Date of print: 5/2/2019

Pinol

Page: 6 of 12

Personal protection equipment

Occupational exposure controls

- Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to EN 14387. (identification colour: brown)
- Hand protection: Protective gloves according to EN 374
Glove material: Nitrile rubber (0.11 mm).
Breakthrough time: > 480 min
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to EN 166.
- Body protection: Wear suitable protective clothing.
- General protection and hygiene measures:
Avoid contact with skin and eyes.
Do not breathe vapours.
Keep away from sources of ignition.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.
Wash clothing before further use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Form: liquid
Colour: clear yellowish up to yellow/orange
- Odour: like oranges
Odour threshold: No data available
- pH value: No data available
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: 175 - 178 °C
- Flash point/flash point range: No data available
- Evaporation rate: No data available
- Flammability: No data available
- Explosion limits: No data available
- Vapour pressure: No data available
- Vapour density: No data available
- Density: No data available
- Water solubility: No data available
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity, dynamic: No data available
- Viscosity, kinematic: No data available
- Explosive properties: No data available
- Oxidizing characteristics: No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019

Version: 11

Language: en-GB,IE

Date of print: 5/2/2019

Pinol

Page: 7 of 12

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable liquid and vapour.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Vapours form explosive mixtures with air.

Spontaneous ignition possible through autoxidation of cloths soaked in the product.

Heating causes rise in pressure with risk of bursting.

10.4 Conditions to avoid

Avoid open flames. Keep away from sources of ignition.

avoid Excessive heating. Protect from light.

10.5 Incompatible materials

Keep away from strong bases, strong acids and oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD50 Rat, oral: > 5000 mg/kg
LD50 Rabbit, dermal: > 5000 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019

Version: 11

Language: en-GB,IE

Date of print: 5/2/2019

Pinol

Page: 8 of 12

Toxicological effects: Acute toxicity (oral): Based on available data, the classification criteria are not met.
Acute toxicity (dermal): Based on available data, the classification criteria are not met.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.
Germ cell mutagenicity/Genotoxicity: 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.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.
Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

Other information: Repeated dose toxicity (subacute, subchronic, chronic), Mouse, LOAEL: 1000 mg/kg bw/day
Genotoxicity: negative
Developmental toxicity, Rat/Mouse: not teratogenic, NOAEL: 591 mg/kg bw/day
Developmental toxicity, Rabbit: not teratogenic,
NOAEL maternal: 250 mg/kg bw/day
NOAEL developmental: 1000 mg/kg bw/day

Symptoms

After eye contact: Not an irritant (Rabbit OECD 405)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.
Algae toxicity:
ErC50 [GrünalgeDesmodesmusSub]: 150 mg/L /72 h (OECD 201).
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 0.67 mg/L /48 h (OECD 202, Limonene).
Fish toxicity:
LC50 Pimephales promelas (fathead minnow): 0.7 mg/L / 96 h (OECD 203)

Further details: Do not allow to penetrate into soil, waterbodies or drains.

12.2 Persistence and degradability

Further details: Biodegradability: 72 - 83.4 %/28 d (OECD 301 B)
readily biodegradable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019
Version: 11
Language: en-GB,IE
Date of print: 5/2/2019

Pinol

Page: 9 of 12

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

Log Bioconcentration factor (BCF): 1.502 - 2.597

BCF (oxygenated monoterpene, typically 13% Orange oil (Citrus dulcis)): 32 – 156

BCF (hydrocarbon terpene, typically 83% Orange oil (Citrus dulcis)): 261 – 395

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

AOX reference: Product does not contain organically bound halogen (AOX).

General information: Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 14 06 03* = Other solvents and solvent mixtures.

* = Evidence for disposal must be provided.

Recommendation: Incinerate according to applicable local, state and federal regulations.

Contaminated packaging

Recommendation: Waste key number:

150107 Glass packaging

150104 Metallic packaging

Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 2319

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 2319, TERPENE HYDROCARBONS, N.O.S.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019

Version: 11

Language: en-GB,IE

Date of print: 5/2/2019

Pinol

Page: 10 of 12

14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1
IMDG: Class 3, Subrisk -
IATA-DGR: Class 3



14.4 Packing group

ADR/RID, IMDG, IATA-DGR:
III



14.5 Environmental hazards

Marine pollutant: yes

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 30, UN number UN 2319
Hazard label: 3
Limited quantities: 5 L
EQ: E1
Contaminated packaging - Instructions: P001 IBC03 LP01 R001
Special provisions for packing together: MP19
Portable tanks - Instructions: T4
Portable tanks - Special provisions: TP1 TP29
Tank coding: LGBF
Tunnel restriction code: D/E

Sea transport (IMDG)

EmS: F-E, S-D
Special provisions: -
Limited quantities: 5 L
Excepted quantities: E1
Contaminated packaging - Instructions: P001, LP01
Contaminated packaging - Provisions: -
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1, TP29
Stowage and handling: Category A.
Properties and observations: Colourless to yellowish liquids. Flashpoint: 32°C to 49°C c.c. Immiscible with water.
Segregation group: none

Air transport (IATA)

Hazard label: Flamm. liquid
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L
Passenger and Cargo Aircraft: Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L
Cargo Aircraft only: Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L
Emergency Response Guide-Code (ERG): 3L

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

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019

Version: 11

Language: en-GB,IE

Date of print: 5/2/2019

Pinol

Page: 11 of 12

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: 3Y
No data available

National regulations - EC member states

Volatile organic compounds (VOC):
100 % by weight = 847 g/L

Labelling of packaging with <= 125mL content



Signal word: **Danger**

Hazard statements: H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.

Precautionary statements:
P102 Keep out of reach of children.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.
P331 Do NOT induce vomiting.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.

Further regulations, limitations and legal requirements:
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: P5c and E2

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.
H304 = May be fatal if swallowed and enters airways.
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H319 = Causes serious eye irritation.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H411 = Toxic to aquatic life with long lasting effects.

Reason of change: IATA-DGR 2019
Date of first version: 6/5/2011

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019

Version: 11

Language: en-GB,IE

Date of print: 5/2/2019

Pinol

Page: 12 of 12

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.