

Safety Data Sheet

MOLDFIN PLUS



Safety Data Sheet dated 27/4/2016, version 1

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

1.1. Product identifier

Mixture identification:

Trade name MOLDFIN PLUS

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

Recommended use:

Release agent

For professional use only.

1.3. Details of the supplier of the safety data sheet

Supplier:

F.IN.CO. S.r.l. - Via Assiano 11 - 20019 Settimo Milanese - Tel. 0233512289

Fax 0233514060

Competent person responsible for the safety data sheet:

e-mail: info.sicurezza@finco.it

1.4. Emergency telephone number

F.IN.CO. S.r.l. - Tel. 02/33512289

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

 Danger, Flam. Liq. 2, Highly flammable liquid and vapour.

 Warning, Skin Irrit. 2, Causes skin irritation.

 Warning, Eye Irrit. 2, Causes serious eye irritation.

 Warning, STOT SE 3, May cause drowsiness or dizziness.

 Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

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

P331 Do NOT induce vomiting.

P370+P378 In case of fire: use CO₂, foam, extinguishing powder or water spray to extinguish.

Special Provisions:

None

Contents:

hydrocarbons C9-10 n-iso-alkanes cyclics <2% aromatics

Hydrocarbons , C9-11 , n - alkanes , isoalkanes , cyclic , < 2 % aromatics

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 40% - < 50%	hydrocarbons C9-10 n-iso-alkanes cyclics <2% aromatics	EC: 927-241-2 REACH No.: 01-21194718 43-32	 2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H336  3.10/1 Asp. Tox. 1 H304 4.1/C3 Aquatic Chronic 3 H412 EUH066
>= 30% - < 40%	Hydrocarbons , C9-11 , n - alkanes , isoalkanes , cyclic , < 2 % aromatics	EC: 919-857-5 REACH No.: 01-21194632 58-33	 2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H336  3.10/1 Asp. Tox. 1 H304 EUH066
>= 10% - < 12.5%	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	EC: 927-510-4 REACH No.: 01-21194755 15-33	 2.6/2 Flam. Liq. 2 H225  3.2/2 Skin Irrit. 2 H315  3.10/1 Asp. Tox. 1 H304  3.8/3 STOT SE 3 H336  4.1/C2 Aquatic Chronic 2 H411

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: use CO₂, foam, extinguishing powder or water spray to extinguish.

Extinguishing media which must not be used for safety reasons:

Water.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

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Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

hydrocarbons C9-10 n-iso-alkanes cyclics <2% aromatics

EU - LTE: 1200 mg/m³, 226 ppm

TLV-TWA - 226ppm -1200 mg/m³

Hydrocarbons , C9-11 , n - alkanes , isoalkanes , cyclic , < 2 % aromatics

TLV-TWA - 1200 mg/m³ - 197 ppm

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

TLV-TWA - 500 ppm / 2085 mg/m³

TLV-STEL - 500 ppm / 2100 mg/m³

DNEL Exposure Limit Values

hydrocarbons C9-10 n-iso-alkanes cyclics <2% aromatics

Worker Industry: 208 mg/kg/d - Consumer: 125 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 871 mg/m³ - Consumer: 185 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 125 mg/kg/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

Hydrocarbons , C9-11 , n - alkanes , isoalkanes , cyclic , < 2 % aromatics

Worker Industry: 208 mg/kg - Consumer: 125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 871 mg/m³ - Consumer: 900 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Worker Professional: 300 mg/kg/d - Consumer: 149 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 2085 mg/m³ - Consumer: 447 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 149 mg/kg/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

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Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Properties	Value	Method:	Notes:
Appearance and colour:	Transparent colorless liquid	--	--
Odour:	Typical	--	--
Odour threshold:	N.D.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.D.	--	--
Initial boiling point and boiling range:	> 100 °C	--	--
Flash point:	- 4 °C	--	--
Evaporation rate:	N.D.	--	--
Flammability (solid, gas):	N.A.	--	--
Upper/lower flammability or explosive limits:	N.D.	--	--
Vapour pressure:	N.D.	--	--
Vapour density:	N.D.	--	--
Relative density:	0,77 kg/L	--	--
Solubility in water:	not soluble	--	--
Solubility in oil:	complete	--	--
Partition coefficient (n-octanol/water):	N.D.	--	--
Auto-ignition temperature:	N.D.	--	--
Decomposition temperature:	N.D.	--	--
Viscosity:	N.D.	--	--
Explosive properties:	N.D.	--	--
Oxidising properties:	N.D.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.D.	--	--
Fat Solubility:	N.D.	--	--
Conductivity:	N.D.	--	--
Substance Groups relevant properties	N.D.	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

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- Stable under normal conditions
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
None.
- 10.4. Conditions to avoid
Stable under normal conditions.
- 10.5. Incompatible materials
Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

hydrocarbons C9-10 n-iso-alkanes cyclics <2% aromatics

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 4951 mg/m³ - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclic, < 2 % aromatics

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 4951 mg/m³ - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

c) serious eye damage/irritation:

Test: Eye Corrosive - Species: Rabbit Negative

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 23.3 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat > 8 ml/kg

Test: LD50 - Route: Skin - Species: Rabbit = 2800-3100 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

a) acute toxicity;

b) skin corrosion/irritation;

c) serious eye damage/irritation;

d) respiratory or skin sensitisation;

e) germ cell mutagenicity;

f) carcinogenicity;

g) reproductive toxicity;

h) STOT-single exposure;

i) STOT-repeated exposure;

j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt sound working practices, so that the product is not released into the environment.

hydrocarbons C9-10 n-iso-alkanes cyclics <2% aromatics

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 22-46 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 1000 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 10-30 mg/l - Duration h: 96

Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclic, < 2 % aromatics

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a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Fish > 1000 mg/l

Endpoint: LC50 - Species: Algae > 1000 mg/l

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 10-30 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish > 13.4 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number : 3295

14.2. UN proper shipping name: HYDROCARBONS, LIQUID, N.O.S.

14.3. Transport hazard class(es)

Road (ADR): 3

14.4. Packing group: II

14.5. Environmental hazards: yes

14.6. Special precautions for user: no

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code: No

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

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1999/13/EC (VOC directive)
Provisions related to directive EU 2012/18 (Seveso III):N.A.
15.2. Chemical safety assessment: No

SECTION 16: Other information

Text of phrases referred to under heading 3:

- H226 Flammable liquid and vapour.
- H336 May cause drowsiness or dizziness.
- H304 May be fatal if swallowed and enters airways.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H411 Toxic to aquatic life with long lasting effects.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

- NIOSH - Registry of toxic effects of chemical substances (1983)
- I.N.R.S. - Fiche Toxicologique

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.