



Chemical and Agricultural Industry, Research S.A.

SAFETY DATA SHEET

HYDROIL

According to the Regulations 453/2010EC, 2015/830, 1907/2006 (REACH) & 1272/2008(CLP)

Revision date: 12-12-2017

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Identification of the Product

Designation	Adjuvant oil, Spreader -Sticker -Emulsifier based on seed oils
Trade name	HYDROIL

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

Product Use	Spray adjuvant used to promote wetting, spreading, misting, sticking and minimize drift. Used as emulsifier in spray solutions with pesticides, fungicides, herbicides and fertilizers.
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1.3 Details of the supplier of the safety data sheet

Vioryl s.a. 28 th km Athens-Lamia National Road,19014 AFIDNES	Tel.	+30 22950 45100
	Fax	+30 22950 45250
	Email	agrochemical@vioryl.gr

1.4 Emergency telephone number: In case of poisoning call:
(Greece) Poisoning center: +30 210 7793777
(Greece) National emergency center: 166
(Cyprus) Poisoning center: 1401

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

The product is classified as hazardous according to the Regulation (EC) 1272/2008(CLP) and subsequent amendments and supplements.

2.2 Label elements

Hazard labelling according to the Regulation (EC) 1272/2008 (CLP).

Precautionary statements:

P102 Keep out of reach of children.

P405 Store locked up.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Nature of ingredients and concentration

None of its ingredients is classified according to the Regulation (EC) 1272/2008.

4. FIRST-AID MEASURES

4.1. Description of first aid measures

Skin Contact: In case of contact with skin wash the affected area with soap and water.

Eye Contact: May cause irritation, experienced as discomfort or pain and tear production and redness. Flush/irrigate eye with copious amounts of water for at least 10 minutes. Obtain medical attention if eyes irritation persists.

Ingestion: If swallowed may cause nausea and vomiting. Do not induce vomiting. Give water or milk to drink. Obtain medical attention if more than a small quantity has been swallowed.

Inhalation: Risk from inhalation: None. Remove to fresh air.

Long term effects: No adverse effects are known.

4.2. Most important symptoms and effects

Following eye contact: Possible discomfort and tearing. Delayed effects are not expected.

Following skin contact:

This product is not expected to cause skin irritation. Delayed effects are not expected.

Following ingestion:

Ingestion may produce irritation of the mucous membranes as demonstrated by signs and symptoms of mouth membrane irritation, nausea and diarrhoea. Delayed effects are not expected.

4.3. Indication of immediate medical attention and special treatment needed

Notes for the physician. There is no specific antidote. Treat symptomatically. Call a Poison Centre.

5. FIRE-FIGHTING MEASURES

5.1. Fire extinguishing media

Suitable extinguishing Media: Carbon dioxide, foam or dry chemical.

5.2. Special hazards arising from the substance or mixture

If product is involved in the fire

Prevent any contamination of the product by oils or other combustible materials. When strongly heated it can decompose giving off carbon oxides and ammonia.

Unusual Fire and Explosion Hazards: none

5.3. Advice for firefighters

Special Firefighting Procedures: Do not enter any confined fire space without proper protective equipment.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency and appropriate protective clothing. Clothing conforming to EN469 is sufficient with fires involving the product.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel:

Emergency procedures: Avoid all unnecessary exposure.

6.1.2. For emergency responders:

Wear suitable personal protective equipment.

6.2. Environmental precautions

Keep product away from ground and surface waters, drainage, sewage and any water source. Inform the appropriate authority in case of accidental contamination of watercourses.

Never mix the product with sawdust and various combustible or organic substances.

6.3. Methods and material for containment and cleaning up

Floor may be slippery; any spillage should be cleaned up promptly, swept up and placed in a clean labeled open container for safe disposal. Contain spill immediately with attapulgate, bentonite or other absorbent clays.

Depending on the degree and nature of contamination, dispose of according to local regulations.

Wash floor or other impervious surface with detergent solution.

6.4. Reference to other sections

See section 8 for protective equipment and section 13 for disposal instructions.

7. **HANDLING AND STORAGE**

7.1. **Precautions for safe handling**

Wear personal protective equipment. When using, do not eat, drink or smoke.. Wash your hands thoroughly after using this product.

7.2. **Conditions for safe storage, including any incompatibilities**

Store in original container and out of the reach of children. Store at room temperatures. Keep away from the source of heat or Fire. Store under conditions to avoid product breakdown by thermal cycling.

7.3. **Specific end use(s)**

The product is a spray emulsifier -spreader. Advise the label information.

8. **EXPOSURE CONTROL / PERSONAL PROTECTION**

8.1. **Control parameters**

Occupational exposure limits

No specific official limits.

8.2. **Exposure controls**

8.2.1 **Appropriate engineering controls**

Engineering controls should be used to eliminate worker and environmental exposure in the areas where the product is handled, transported, loaded, stored and used.

8.2.2. **Personal protection equipment**

Wear suitable gloves when handling the product.

Wear goggles or safety glasses.

After handling the product, wash hands and observe good hygiene practice.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

9.1. **Information on basic physical and chemical properties**

<i>Appearance</i>	Amber oily liquid
<i>Odor</i>	oily
<i>Explosive properties</i>	Not explosive
<i>Oxidizing properties</i>	Not classed as an oxidizing material
<i>Bulk weight</i>	0.930 gr/ml
<i>Solubility in water</i>	Disperses readily in water to form an emulsion

10. **STABILITY AND REACTIVITY**

10.1. **Reactivity**

No hazardous reactions are expected. The product is stable for up to 2 years.

10.2. **Chemical stability**

The product is stable for 2 years when stored in original container under normal conditions of storage.

10.3. **Possibility of hazardous reactions**

Hazardous polymerization does not occur.

10.4. **Conditions to avoid**

Avoid storage in unusual high temperatures.

10.5. **Incompatible materials**

Avoid strong oxidizers. Strong oxidizing acids may cause a vigorous reaction that is sufficiently exothermic to ignite the reaction products.

10.6 **Hazardous Decomposition Products:**

When involved in fire, the components of this product decompose to produce dense irritating smoke and gases of carbon monoxide and dioxide, water vapor and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The product has not been tested. The data have been derived from the properties of the main components.

Data for the natural oils

Acute oral toxicity

LD50 Rat Oral Acute > 100 000 mg/kg bw

16500 mg/kg Intravenous

According to Regulation (EC) No. 1272/2008, no classification is warranted.

Skin irritation / corrosion

May cause slight irritation. According to Regulation (EC) No. 1272/2008, no classification is warranted.

Eye irritation

Slightly irritating in case of eye contact. According to Regulation (EC) No. 1272/2008, no classification is warranted.

Skin sensitisation: Not sensitizing

Repeated dose toxicity:

NOAEL > 5000 mg/kg/day

Developmental or Reproductive Toxicity

NOAEL > 2000 mg/kg/day

Carcinogenicity:

It was concluded that is not carcinogenic.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

This product itself and its products of degradation are not toxic under normal conditions of use. The product has not been tested. Data from the properties of the main components (seed oils) are lacking.

12.2 Persistence and Degradability

Readily biodegradable in soil, degrades by soil microorganisms.

In water: Readily biodegradable.

The seed oils are reported to be sensitive to light therefore, it may be susceptible to direct photolysis in water exposed to sunlight. They are reported to be readily biodegradable indicating that biodegradation is expected to be an important environmental fate process in water.

12.3 Bioaccumulative potential:

It is not expected that there is any process for accumulation in living organisms.

12.4 Mobility in the soil:

According to the estimated Koc values of seed oils it is expected to be immobile in soil.

12.5 Results of PBT and vPvB assessment:

PBT and vPvB assessment: Not relevant.

12.6 Other adverse effects:

No other effects to be mentioned.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods.

14. TRANSPORT INFORMATION

Not classified according to the criteria of the following international transport agreements, codes, regulations and instructions:

14.1 Land transport ADR/RID

ADR/RID Class: 0

Danger code (Kemler):

UN number: Not regulated

Packaging group: --

14.2 Maritime transport IMDG

IMDG Class: 0

UN number: Not regulated

Packaging group: --

14.3 Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 0

UN number: Not regulated

Packaging group: --

15. REGULATORY INFORMATION

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

Regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Regulation (EC) 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency.

16. OTHER INFORMATION

16.1 Indication of changes:

The contents of the following section(s) alter and supersede those in the previous version:

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 & 16. All parts updated in accordance to the Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006.

16.2 Full text of H - Statements

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16.3 Further information:

According to Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006, the information in this safety data sheet is based on the properties of the materials known to VIORYL S.A. at the time the data sheet was issued. The safety data sheet is intended to provide information for a healthy and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. It is the user's responsibility to determine conditions of safe use of the product, according to the information provided in this safety data sheet.

This document is not intended for quality assurance purposes.

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