



Safety Data Sheet

According to 1907/2006/EC, Article 31

Printing date 07.08.2023

Version number 3

Revision: 07.08.2023

LIQUID WAX RELEASE AGENT

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

- **1.1 Product identifier**
- **Trade name:** Liquid Wax Release Agent
- **Utilization of the substance of the formulation:** Mould release
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application for the substance / the preparation:** Moulding & Casting
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**
DWR plastics
Broadway
Newport
Shropshire
TF10 7TP
Tel: +44 (0) 1630 659739
Email: info@dwrlastics.com
- **1.4 Emergency telephone number:** + 44 (0) 1630 659739

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567**

Aspiration hazard (Category 1), H304

For the full text of the H-Statements mentioned in this Section, see Section 16
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567**

Hazard Pictograms



Signal Word: *Danger*

Hazard Statements: *H304 May be fatal if swallowed and entered airways.*

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Precautionary Statements: P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE/ doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

Supplemental label: EUH066 Repeated exposure may cause skin dryness or cracking.

· 2.3 Other Hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative or very persistent (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixture**
- **Description:** Mixture of substances listed below with non-hazardous additions.

Component	Classification	Concentration
Distillates (petroleum), hydrotrated light, kerosene - unspecified		
CAS- No: 64742-47-8 EC-No: 265-149-8 Index-No: 649-422-00-2	Asp. Tox. 1; H304	97.5-99%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

- **General Information:** Show this material safety data sheet to the doctor in attendance.
- **Eye Contact:** Flush eyes with plenty of water. Remove contact lenses. If irritation persists, seek medical attention.
- **Skin Contact:** Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. If irritation persists, seek medical attention.
- **If Inhaled:** Remove to fresh air..
- **If Swallowed:** After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately
- **4.2 Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
- **4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.



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SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- **Suitable extinguishing agents:** Foam Carbon Dioxide (CO₂) Dry powder.
- **Unsuitable extinguishing agents:** For this substance/mixture no limitations of extinguishing agents are given.

· 5.2 Special hazards arising from the substance or mixture:

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

· 5.3 Advice for firefighters

- **Protective equipment:** Wear self-contained respiratory protective device. Wear fully protective impervious suit.

· **5.4 Further information:** Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures:** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

· **6.2 Environmental precautions:** Do not let product enter drains.

· 6.3 Methods and material for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

· **6.4 Reference to other sections:** For disposal see section 13.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

· **Advice on protection against fire and explosion:** Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

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· **Hygiene measures:** Change contaminated clothing. Wash hands after working with substances. For precautions see section 2.2.

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

Storage conditions

Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 10: Combustible liquids

· **7.3 Specific end use(s):** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters:** Contains no substances with occupational exposure limit values.

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.

· **Eye protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

· **Protection of hands:** Chemical-resistant gloves.

· **Body protection:** Protective work clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

· **Respiratory protection:** Required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

· **Control of environmental exposure:** Do not let product enter drains.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information	
· Appearance:	
Form:	Liquid
Colour:	Milky yellow/white
· Odour:	Characteristic
· Odour threshold:	Not determined
· pH-value:	
Melting point/Melting range:	0 °C at 1,013 hPa - ISO 3016
Boiling point/Boiling range:	218 - 800 °C at 1,013 hPa
· Flash point:	70°C
· Flammability (solid, gaseous):	No data available
· Autoignition temperature:	325 - 355 °C - ASTM E-659
· Decomposition temperature:	Not determined
· Self-igniting:	Not determined
· Danger of explosion:	Not determined
· Explosion limits:	
Lower:	0.6 %(V)
Upper:	6 %(V)
· Vapour pressure:	0.4 hPa
· Density at 20 °C:	0.92 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined
· Evaporation rate	Not determined
· Solubility in / Miscibility with water:	Hardly soluble in water
· Viscosity:	Viscosity, kinematic: > 3 mm ² /s at 40 °C - ISO 3219
· Solvent content:	
Organic solvents:	None
VOC (EC)	None

· **9.2 Other information:** No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid: Strong heating.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: In the event of fire: see section 5



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SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· **Information on likely routes of exposure:** Inhalation, skin contact, ingestion, eye contact.

· **Acute toxicity**

LD50 Oral - Rat - male and female - > 5,000 mg/kg
(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 5 mg/l - vapor
(OECD Test Guideline 403)

LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg
(OECD Test Guideline 402)

· **Skin corrosion/irritation:**

Skin - Rabbit

Result: No skin irritation
(OECD Test Guideline 404)

· **Serious eye damage/irritation:**

Eyes - Rabbit

Result: No eye irritation
(OECD Test Guideline 405)

· **Respiratory or skin sensitisation:**

Buehler Test - Guinea pig

Result: Does not cause skin sensitization.
(OECD Test Guideline 406)

· **Germ cell mutagenicity:**

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: in vivo assay

Species: Mouse

Application Route: Intraperitoneal

Method: OECD Test Guideline 474

Result: negative

· **Carcinogenicity:** No data available.

· **Reproductive toxicity:** No data available.

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- **STOT-single exposure:** No data available.
- **STOT-repeated exposure:** No data available.
- **Aspiration hazard:** May be fatal if swallowed and enters airways.
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SECTION 12: Ecological information

- **12.1 Toxicity:** No data available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bio accumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB 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 0.1% or higher.
- **12.6 Endocrine disrupting properties:** 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**
- **Recommendation:** Dispose of in accordance to local to the regulations pertaining to the disposal of waste.
- **Uncleaned packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.



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SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**
 · **Class** Void

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user** Not applicable.

· **14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code** Not applicable.

· **UN "Model Regulation":** Void

SECTION 15: Regulatory information

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

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work

· **15.2 Chemical safety assessment:** For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

Full text of other abbreviations

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; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration

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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 Harmonized 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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 - Organization 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; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. DWR Plastics Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.