



**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**ADDINOL Heat Transfer Oil XW 15 HT**

Revision date: 10/12/2021

Product code: 778009

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Do NOT induce vomiting.  
Store locked up.  
Dispose of contents/container to an appropriate recycling or disposal facility.

**Additional advice on labelling**

The product is classified and labelled according to EC directives or corresponding national laws.

**Hazards not otherwise classified**

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
Do not allow uncontrolled discharge of product into the environment.

**3. Composition/information on ingredients****Substances****Hazardous components**

CAS No	Components	Quantity
53585-53-8	Dibenzylbenzene, ar-methyl derivative	100 %

**Further Information**

Classification system: The classification corresponds to the current US lists and is completed by information from specialist literature and company information.

**4. First-aid measures****Description of first aid measures****General information**

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets. Get medical advice/attention if you feel unwell.

**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm. In case of persistent complaints seek medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion**

Call a physician immediately. Do NOT induce vomiting.

Rinse mouth immediately and drink plenty of water.

**Most important symptoms and effects, both acute and delayed**

May be fatal if swallowed and enters airways.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water mist

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

In case of fire, the following may be released: Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

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### Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

### **Additional information**

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### **General advice**

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear respiratory protection when in the presence of vapor, dust, and aerosols. Avoid contact with skin, eye and clothing.

### Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

### Methods and material for containment and cleaning up

#### **Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist. If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes. Keep container tightly closed.

#### **Advice on protection against fire and explosion**

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Ground/bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/ ] equipment.

#### **Advice on general occupational hygiene**

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

### Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

#### **Hints on joint storage**

Keep away from food, drink and animal feed.

Keep away from: Oxidizing agents.

#### **Further information on storage conditions**

Protect against: UV-radiation/sunlight. Frost. Heat.

Recommended storage temperature: 5 - 40°C

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**8. Exposure controls/personal protection****Control parameters****Additional advice on limit values**

The product does not contain any relevant quantities of substances with legally established exposure limitation.

**Exposure controls****Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations. Minimum room ventilation rate for handling/application (air changes per hour): 10

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

**Hand protection**

Tested protective gloves must be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min

Suitable material: FKM (fluoro rubber)

Thickness of glove material: 0.4 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: FKM (fluoro rubber)

Thickness of glove material: 0.2 mm

Protect skin by using skin protective cream.

**Skin protection**

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

**Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Breathing protection with filter against organic gases and vapours type A - boiling point > 65°C: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	liquid
Color:	colorless, yellow
Odor:	characteristic

	Test method
Melting point/freezing point:	-39 - -32 °C
Boiling point or initial boiling point and boiling range:	390 °C ASTM D 1078
Flammability:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	200 °C DIN EN ISO 22719

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Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH-Value:	not applicable
Viscosity / kinematic: (at 40 °C)	16,4 mm <sup>2</sup> /s DIN 51562
Water solubility:	practically insoluble.
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	> 6 OECD (TG) 117
Vapor pressure: (at 20 °C)	<0,01 hPa
Density (at 15 °C):	1,045 g/cm <sup>3</sup> DIN 51757
Relative vapour density:	No data available

**Other information****Information with regard to physical hazard classes**

Explosive properties

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

**Other safety characteristics**

Evaporation rate:

No data available

Pour point:

-34 °C DIN ISO 3016

**Further Information**

No data available

**10. Stability and reactivity****Reactivity**

The product is stable under storage at normal ambient temperatures.

**Chemical stability**

Stability: Stable

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**Possibility of hazardous reactions**

Hazardous reactions: Will not occur

Vapors may form explosive mixtures with air.

**Conditions to avoid**

Protect from sunlight. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not overheat to avoid decomposition by heat.

**Incompatible materials**

No data available

**Hazardous decomposition products**In case of fire, the following may be released: Carbon monoxide Carbon dioxide (CO<sub>2</sub>)**11. Toxicological information****Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
53585-53-8	Dibenzylbenzene, ar-methyl derivative				
	oral	LD50 mg/kg	>= 10000	Rat	Study report (1984) OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1990) OECD Guideline 402
	inhalation (4 h) vapour	LC50 mg/l	>0,24	Rat	OECD 403

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitizing effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity (STOT) - repeated exposure**

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

**Aspiration hazard**

May be fatal if swallowed and enters airways

**Information on other hazards****Endocrine disrupting properties**

not applicable

**12. Ecological information****Ecotoxicity**

CAS No	Components					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
53585-53-8	Dibenzylbenzene, ar-methyl derivative					
	Acute fish toxicity	LC50 mg/l	> 0,32	96 h	Danio rerio	REACH Registration Dossier EU Method C.1
	Acute algae toxicity	ErC50 mg/l	>0,016	72 h	Skeletonema costatum	
	Acute crustacea toxicity	EC50 mg/l	>0,029	48 h	Daphnia magna	
	Fish toxicity	NOEC mg/l	>0,0046	14 d	Leuciscus idus (golden orfe)	OECD 204
	Crustacea toxicity	NOEC mg/l	>0,0014	21 d	Daphnia magna	OECD 211

**Persistence and degradability**

No data available

**Bioaccumulative potential**

Bioconcentration factor (BCF): 7525 (literature value)

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**Partition coefficient n-octanol/water**

CAS No	Components	Log Pow
53585-53-8	Dibenzylbenzene, ar-methyl derivative	>6

**Mobility in soil**

No data available

**Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.  
not applicable

**Other adverse effects**

No data available

**Further information**

Do not allow uncontrolled discharge of product into the environment.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be disposed of.

**14. Transport information****U.S. DOT 49 CFR 172.101****UN number or ID number:**

UN 3082

**Proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Transport hazard class(es):**

9

**Packing group:**

III

Hazard label:

9

**Marine transport (IMDG)****UN number or ID number:**

UN 3082

**UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Dibenzylbenzene, ar-methyl derivative)

**Transport hazard class(es):**

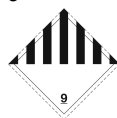
9

**Packing group:**

III

Hazard label:

9



EmS:

F-A, S-F

**Air transport (ICAO-TI/IATA-DGR)****UN number or ID number:**

UN 3082

**UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Dibenzylbenzene, ar-methyl derivative)

**Transport hazard class(es):**

9

**Packing group:**

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Limited quantity Passenger:	5L	
Passenger LQ:	Y964	
IATA-packing instructions - Passenger:		964
IATA-max. quantity - Passenger:		5L
IATA-packing instructions - Cargo:		964
IATA-max. quantity - Cargo:		5L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Dibenzylbenzene, ar-methyl derivative

**Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National Inventory TSCA**

Substance/product listed in the following inventories: TSCA

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

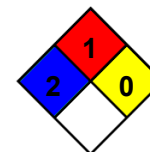
This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information****Hazardous Materials Information Label (HMIS)**

Health:	2
Flammability:	1
Physical Hazard:	0

**NFPA Hazard Ratings**

Health:	2
Flammability:	1
Reactivity:	0
Unique Hazard:	

**Changes**

Revision date:	10/12/2021
Revision No:	1,14

This data sheet contains changes from the previous version in section(s): 2,3,5,9,10,12,14,15,16.

**Abbreviations and acronyms**

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

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO - Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN -



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European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Other data**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.