

Safety Data Sheet

according to WHMIS

ADDINOL Heat Transfer Oil XW 15 HT

Revision date: 12.10.2021

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.

Other hazards

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	Chemical name	Quantity
53585-53-8	Dibenzylbenzene, ar-methyl derivative	100 %

Further Information

Classification system: The classification corresponds to the current CDN 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, whether acute or delayed

May be fatal if swallowed and enters airways.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

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

Carbon dioxide (CO₂) Extinguishing powder Water mist

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the hazardous product

In case of fire, the following may be released: Carbon monoxide Carbon dioxide (CO₂)

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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 jet 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 breathing apparatus if exposed to vapours/dusts/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: 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 and 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 or smoke when using this product.

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 feedingstuffs.

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. Respiratory protection with filter against organic gases and vapors type A - boiling point > 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

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

Physical state:	liquid
Colour:	colourless, yellow
Odour:	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 explosive limits:	No data available
Upper explosive 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 ² /s DIN 51562
Water solubility:	practically insoluble.
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	> 6 OECD (TG) 117
Vapour pressure: (at 20 °C)	<0,01 hPa
Density (at 15 °C):	1,045 g/cm ³ 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

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

Possibility of hazardous reactions

Vapours can 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 productsIn case of fire, the following may be released: Carbon monoxide Carbon dioxide (CO₂)**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	Chemical name				
	Route of exposure	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.

STOT-single exposure

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

STOT-repeated exposure

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

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	Chemical name					
	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	Chemical name	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

Canadian TDG

UN number:

UN 3082

Proper shipping name:

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

Hazard classes:

9

Packing group:

III

Hazard label:

9

Limited quantity:

5 L



Marine transport (IMDG)

UN number or ID number:

UN 3082

United Nations 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

United Nations proper shipping name:

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

Transport hazard class(es):

9

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Packing group:	III	
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

15. Regulatory information**Canadian regulations****DSL/NDSL inventory status**

Substance/product listed in the following inventories: DSL

16. Other information**Changes**

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 - 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

Further Information

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

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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.