

Safety data sheet

according to Regulation (EC) No 1907/2006 (REACH)



Trade name : KADIOL 90
Date processed : 24.11.2023
Print date : 24.11.2023

Version : 3.0.1 (3.0.0)

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

1.1 Product identifier

KADIOL 90
UFI-Code: 4UW2-D18V-R405-71CE

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

Relevant identified uses

Metalworking fluids

Uses advised against

There is no information available.

1.3 Details of the supplier providing the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor)

KADIA Inc.

Street : 8020 Kensington Ct.

Postcode/Place : MI 48116 / Brighton

Phone : +1 (248)-446-1970

Fax : +1 (248)-446-1950

Email address : info@kadiausa.com

1.4 Emergency number

+1 703-527-3887 (Chemtrec Emergency Phone Number)

SECTION 2: Potential hazards

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP].

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

2.2 Labelling elements

Labelling in accordance with Regulation (EC) No 1272/2008 [CLP].

Hazard pictograms



Health hazard (GHS08)

Signal word

Danger

Hazard-determining components of labelling

Distillates (petroleum), hydrotreated light paraffinic; CAS No : 64742-55-8

Hazard warnings

H304 May be fatal if swallowed and enters airways.

Safety instructions

P301+P310 IN CASE OF HAZARD: Immediately call POISON CENTRE/Physician/... call immediately.

P331 DO NOT induce vomiting.

P405 Keep under lock and key.

2.3 Other hazards

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None

SECTION 3: Composition/Information on ingredients

3.2 Mixtures

Description

Mixture of base oils and additives.

Hazardous ingredients

Distillates (petroleum), hydrotreated light paraffinic; REACH No : 01-2119487077-29-xxxx ; EC No . : 265-158-7; CAS No. : 64742-55-8

Weight proportion : $\geq 70 - < 75$ %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

Amines, C12-14-tert-alkyl, mixed sec-butyl and isobutyl phosphates ; REACH-No. : 01-2120769710-51-0000 ; EC-No. : 306-227-4 ; CAS No. : 96690-34-5

Weight proportion : $\geq 0,5 - < 1$ %
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Chronic 2 ; H411

2,6-DI-TERT-BUTYL-P-KRESOL ; REACH No. : 01-2119565113-46-0000 ; EC-No. : 204-881-4 ; CAS No. : 128-37-0

Weight proportion : $< 0,25$ %
Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional hints

Wording of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of the first aid measures

General notes

In all cases of doubt or if symptoms are present, seek medical advice.

After inhalation

Remove victim to fresh air and keep warm and quiet. If necessary, give oxygen ventilation. In case of irritation of the respiratory tract, consult a doctor.

In case of skin contact

Change soiled, saturated clothing. After contact with skin, wash with plenty of soap and water. In case of skin irritation, consult a doctor.

After eye contact

Immediately rinse carefully and thoroughly with eye wash or water. Remove any contact lenses if possible. Continue rinsing. If eye irritation occurs, consult an ophthalmologist.

After ingestion

Do not induce vomiting. Call a doctor immediately. Rinse mouth thoroughly with water. In case of vomiting, observe the risk of aspiration.

Self-protection of the first aider

No direct breath administration by the first aider.

4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur: Cough, difficulty breathing, shortness of breath, fever, pulmonary oedema, pneumonia
Symptoms may also occur many hours after exposure.

4.3 Indications for immediate medical help or special treatment

Elementary aid, decontamination, symptomatic treatment. In case of vomiting, observe risk of aspiration.

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SECTION 5: Fire-fighting measures

5.1 Extinguishing agent

Suitable extinguishing agents

Foam, extinguishing powder, carbon dioxide (CO₂), water spray, water mist,

Unsuitable extinguishing agents

Sharp water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In the event of fire, the following can be produced: Carbon dioxide (CO₂), carbon monoxide, nitrogen oxides (NO_x), smoke and other products of incomplete combustion.

5.3 Advice for firefighters

Special protective equipment for fire fighting

Wear self-contained breathing apparatus and chemical protective suit.

5.4 Additional hints

Do not inhale explosion and fire gases. Use water spray to protect persons and to cool containers in the danger zone. If safe to do so, remove undamaged containers from the danger zone. Collect contaminated extinguishing water separately. Do not allow to enter drains or watercourses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Use respiratory protection when exposed to vapours, dusts and aerosols. Ventilate the affected area. Remove all sources of ignition.

6.2 Environmental protection measures

Do not allow to enter drains or water courses. Do not allow to enter the subsoil/earth. Ensure that leaks can be contained, e.g. by means of catch basins or lowered areas. In case of gas leakage or if it enters water, soil or sewage system, notify competent authorities.

6.3 Methods and material for retention and cleaning

For retention

If safe to do so, stop leakage and collect spilled material. Cover sewage system. Prevent area-wide expansion (e.g. by containment or oil booms).

For cleaning

Remove spilled quantities immediately. Wipe up with absorbent material (e.g. cloth, fleece). Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Take up mechanically and dispose of in suitable containers. Ventilate the affected area. Thoroughly clean contaminated objects and floor in compliance with environmental regulations.

6.4 Reference to other sections

Safe handling: see section 7
Personal protective equipment: see section 8
Disposal
: see section
13

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

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Use only in well-ventilated areas. Close container with lid immediately after use. Avoid contact with skin, eyes and clothing. Do not breathe gas/fume/vapour/aerosol. Keep away from sources of ignition - Do not smoke.

Protective measures

Fire protection measures

Use the material only in places where open light, fire and other sources of ignition are kept away.

Environmental protection measures

Do not allow to enter drains or water courses.

Notes on general industrial hygiene

Do not eat, drink, smoke or sniff at the workplace. Wash hands before breaks and at the end of work.

7.2 Conditions for safe storage taking into account incompatibilities

Technical measures and storage conditions

Ensure sufficient ventilation of the storage room.

Packaging materials

Only use containers that are specifically approved for the product.

Requirements for storage rooms and containers

Keep container tightly closed and store in a cool, well-ventilated place. Protect container from damage.

Information on storage in one place

Storage class : 10

Storage class (TRGS 510) : 10

Substances to avoid

Oxidising agent

Do not store together with

Food and feed

Further information on storage conditions

Recommended storage temperature : 5 - 40°C

Protect against : Frost Heat. UV radiation/sunlight Water Moisture.

Storage stability : The product can be stored under the above conditions for up to 24 months.

7.3 Specific end uses

None

SECTION 8: Exposure controls/personal protective equipment

8.1 Parameters to be monitored

Occupational exposure limit values

So far, no national limit values have been set.

8.2 Exposure controls and monitoring

Suitable technical control devices

Use only in well-ventilated areas. If local exhaust ventilation is not possible or insufficient, ensure good ventilation of the work area if possible. Technical measures and the use of appropriate work procedures take precedence over the use of personal protective equipment.

Personal protective equipment

The choice of personal protective equipment depends on the potential exposure conditions, e.g. procedure, handling type, concentration and ventilation. The information below on the choice of protective equipment when using this material assumes intended normal use.

Eye/face protection

Frame goggles with side protection DIN EN 166

Skin protection

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Hand protection

Hand protection is not required.

In case of frequent hand contact: Wear approved protective gloves (DIN EN 374).

The design of chemical protective gloves must be selected according to the concentration and quantity of hazardous substances at the workplace. Check for leaks/impermeability before use.

Suitable material :

Wearing time in permanent contact:

Material: NBR (nitrile rubber), , CR (polychloroprene, chloroprene rubber), , PVA (polyvinyl alcohol),

Thickness of glove material: 0.70 mm

Penetration time (maximum wearing time): > 480 min

wearing time with occasional contact (splashes):

Material: NBR (nitrile rubber), , CR (polychloroprene, chloroprene rubber), , PVA (polyvinyl alcohol), thickness of glove material: 0.40 mm Penetration

time (maximum wearing time): > 30 min

Penetration time (maximum wearing time): : It is recommended to check the chemical resistance of the above mentioned protective gloves for specific applications with the glove manufacturer.

Body protection

Body protection not required. If prolonged or repeated contact is likely, chemical resistant clothing is recommended.

Other protective measures

Wear safety shoes and use suitable work equipment when handling the product in drums.

Breathing protection

Normally no personal respiratory protection necessary.

If technical extraction or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory protection is required in case of: insufficient ventilation, , aerosol or mist formation.

Suitable breathing apparatus

Combination filter unit (EN 14387)

General notes

Do not eat, drink, smoke or sniff at the workplace. Wash hands before breaks and at the end of work. Wash soiled clothing before reuse. Do not carry product-soaked rags in trouser pockets. Use skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Appearance : Liquid

Colour : brown

Odour : characteristic

Safety parameters

pH value :		No data available	
Melting point/freezing point :		No data available	
Initial boiling point and boiling range :	(1013 hPa)	inapplicable	
Flash point :		153 °C	DIN EN ISO 2592
Lower explosion limit :		0,6 Vol-%	
Upper explosion limit :		6,5 Vol-%	
Vapour pressure :	(20 °C)	No data available	
Density :	(15 °C)	0,869 g/cm ³	DIN EN ISO 12185
Water solubility :	(20 °C)	practically insoluble	
log P O/W :		inapplicable	
Auto-ignition temperature :		No data available	
Kinematic viscosity :	(40 °C) approx.	10 mm ² /s	DIN EN ISO 3104
Decomposition temperature :		Not determined	
Odour threshold :		No data available	

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Relative vapour density : (20 °C) No data available
Evaporation number : No data available
Evaporation rate : No data available
Maximum VOC content (Switzerland) : 0 Wt%
Oxidising liquids : Not oxidising.
Explosive properties : Not explosive according to EU A.14.

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

There is no information available.

10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reactions occur if handled and stored as intended.

10.4 Conditions to avoid

There is no information available.

10.5 Incompatible materials

Oxidising agent, strong.

10.6 Hazardous decomposition products

Does not decompose in the intended use.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological data are not available. The statements are derived from the properties of the individual components.

Acute toxicity

There is no evidence of acute hazard from single ingestion, skin contact or inhalation of the product.

Corrosivity

non-irritant.

Sensitisation of the respiratory tract/skin

not sensitising.

CMR effects (carcinogenic, mutagenic and toxic for reproduction)

Carcinogenicity

No particular effects or hazards known.

Germ cell mutagenicity

No particular effects or hazards known.

Reproductive toxicity

No particular effects or hazards known.

Specific target organ toxicity at single exposure

STOT SE 1 and 2

No known adverse effect on organs from a single exposure.

Specific target organ toxicity in case of repeated exposure

STOT RE 1 and 2

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No known adverse effect on organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways. Based on physicochemical properties of the material. Viscosity data: See section 9.

SECTION 12: Environmental information

12.1 Toxicity

No ecotoxicological data are available for the product. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the individual components (see section 3).

Aquatic toxicity

harmless to aquatic organisms up to the tested concentration

12.2 Persistence and degradability

Biodegradation

Moderately/partially biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

There is no information available.

12.5 Results of the PBT and vPvB assessment

The substances in the mixture do not fulfil the PBT/vPvB criteria according to REACH, Annex XIII.

12.6 Other adverse effects

There is no information available.

12.7 Additional ecotoxicological information

Do not allow uncontrolled release of product into the environment.

SECTION 13: Disposal instructions

13.1 Waste treatment process

Disposal of the product/packaging

Waste codes/waste designations according to EWC/AVV

The allocation of waste code numbers/waste designations shall be carried out in accordance with EAKV on a sector- and process-specific basis.

Waste code Product

12 01 07*

Deviating use of the product and/or contamination may necessitate the use of another waste code number by the waste producer.

Waste designation

halogen-free mineral oil-based machining oils (except emulsions and solutions)

Waste treatment solutions

Proper disposal / product

Contact the responsible authorised waste disposal company about waste disposal.

Proper disposal / packaging

Non-contaminated and completely empty packaging can be recycled. Packaging that cannot be cleaned must be disposed of. Dispose of in accordance with official regulations.

Other disposal recommendations

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Empty containers may contain residues and be dangerous. Do not fill or clean containers without precise instructions. Do not pressurise, cut, weld, solder, drill, grind or expose containers to heat, flame, sparks, static electricity or other sources of ignition.

SECTION 14: Transport information

14.1 UN number

Not a dangerous good in the sense of these transport regulations.

14.2 UN proper shipping name

Not a dangerous good in the sense of these transport regulations.

14.3 Transport hazard classes

Not a dangerous good in the sense of these transport regulations.

14.4 Packing group

Not a dangerous good in the sense of these transport regulations.

14.5 Environmental hazards

Not a dangerous good in the sense of these transport regulations.

14.6 Special precautions for the user

None

SECTION 15: Legislation

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

National regulations

Technical Instructions on Air Quality (TA-Luft)

Percentage by weight (subclause 5.2.5. 1) : < 5 %

Water hazard class (WGK)

Class : 1 (slightly hazardous to water) Classification according to AwSV

Other regulations, restrictions and prohibitions

Ordinance on Industrial Safety and Health (BetrSichV)

No flammable liquid according to BetrSichV.

15.2 Chemical Safety Assessment

There is no information available.

SECTION 16: Other information

16.1 Notes on changes

None

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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GHS: Globally Harmonized System on the Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50
percent EC50: Effective concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

16.3 Important literature references and data sources

The following sources of information were used in the preparation of the safety data sheet: Product dossiers and safety data sheets from suppliers, supplemented by publicly available technical literature (e.g. GESTIS, EU IUCLID Data Base, U.S. NTP publications, etc.).

16.4 Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].

There is no information available.

16.5 Wording of H and EUH phrases (number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes severe eye damage.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic organisms with long lasting effects.
H411	Toxic to aquatic organisms, with long lasting effects.

16.6 Training information

Provide adequate information, instruction and training to users.

16.7 Additional information

None

The information provided in this safety data sheet is correct to the best of our knowledge at the time of printing. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or undergoes treatment, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.
