

# KOENIG & BAUER

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - en

### Kammann grease XP1

Version	Revision Date	Date of last issue: 30.07.2020	Print Date:
2.4	05.04.2019	Date of first issue: 30.10.2013	30.07.2020

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## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name                      KAMMANN grease XP1

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

Use of the Substance/Mixture   Grease

Recommended restrictions        Restricted to professional users.  
on use

### 1.3. Details of the supplier of the safety data sheet

Company                              **Koenig & Bauer Kammann GmbH**  
Weidehorst 80  
D-32584 Löhne  
Germany  
T:            +49 (0) 5744 7710-0  
F:            +49 (0) 5744 7710-5130

E-Mail address of person         [mail@kammann.de](mailto:mail@kammann.de)  
Responsible for the SDS

National contact                    **Koenig & Bauer Kammann GmbH**  
Weidehorst 80  
32584 Löhne  
Germany  
T:            +49 (0) 5744 7710-0  
F:            +49 (0) 5744 7710-5130

[mail@kammann.de](mailto:mail@kammann.de)  
kammann.de

### 1.4. Emergency telephone number

**+49 551 19240**

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## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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#### 2.2. Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

##### Additional Labelling

EUH210 Safety data sheet available on request.  
EUH208 Contains 5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione. May produce an allergic reaction

#### 2.3. Other hazards

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.

### Section 3: Composition/information on ingredients

#### 3.2. Mixtures

Chemical nature	Mineral oil Lithium soap Solid lubricant
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##### Hazardous components

Chemical Name	CAS-No. EC-No.  Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione	72676-55-2 276-763-0  01-2120119820-64-XXXX	Skin Sens.1B; H317 Aquatic Chronic2; H411		>= 0.1 - < 0.25
Substances with a workplace exposure limit:				
molybdenum disulphide	1317-33-5 215-263-9			>= 1 - < 10

For explanation of abbreviations see section 16.

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#### Section 4: First aid measures

##### 4.1. Description of first aid measures

If inhaled	Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	Remove contaminated clothing. If irritation develops, get medical attention. Wash off with soap and water.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed	Move the victim to fresh air. Do not induce vomiting without medical advice.

##### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
Risks	None known

##### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment	No information available
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#### Section 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet

##### 5.2. Special hazards arising from the substance or mixture

Special hazards during firefighting	Fire may cause evolution of: Carbon oxides Metal oxides Sulphur oxides
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##### 5.3. Advice for firefighters

Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the case of respirable
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dust and/or fumes, use self-contained breathing apparatus.  
Exposure to decomposition products may be a hazard to health.

Further information

Standard procedure for chemical fires.

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## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.
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### 6.2. Environmental precautions

Environmental precautions	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
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### 6.4. Reference to other sections

For personal protection see section 8.

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## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling	For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing.
Hygiene measures	Wash face, hands and any exposed skin thoroughly after handling.

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

Requirements for storage areas and containers

Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

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

Specific use(s)

Specific instructions for handling, not required.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
molybdenum disulphide	1317-33-5	TWA	10 mg/m <sup>3</sup> (Molybdenum)	en EH40 (2005-04-06)
		STEL	20 mg/m <sup>3</sup> (Molybdenum)	en EH40 (2005-04-06)

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Residual oils (petroleum), hydrotreated; Baseoil –unspecified	Workers	Inhalation	Long-term systemic effects	2.7 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	5.6 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	1 mg/kg

### 8.2. Exposure controls

#### Engineering measures

none

#### Personal protective equipment

Eye protection                      Tightly fitting safety goggles.

Hand protection  
Remarks

Protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of gloves and therefore has to be measured for each case.

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Respiratory protection	In the case of dust or aerosol formation use respirator with an approved filter.
Protective measures	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Choose body protection in relation to its type, to the concentration and amount of dangerous substance, and to the specific work-place.

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## Section 9: Physical and chemical properties

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

Appearance	paste
Colour	grey
Odour	characteristic
Odour Threshold	No data available
pH	No data available
Melting point/range	No data available
Boiling point/boiling range	No data available
Flash point	not applicable
Evaporation rate	No data available
Flammability (solid, gas)	Combustible Solids
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	< 0,001 hPa (20°C)
Relative vapour density	No data available
Density	0,90 g/cm <sup>3</sup> (20°C)
Bulk density	No data available

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Solubility(ies)  
Water solubility insoluble

Solubility in other solvents No data available

Partition coefficient: n-octanol/water No data available

Auto-ignition temperature No data available

Decomposition temperature No data available

Viscosity  
Viscosity, dynamic No data available

Viscosity, kinematic No data available

Explosive properties Not explosive

Oxidizing properties No data available

#### 9.2. Other information

Sublimation point No data available

Self-ignition No data available

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### Section 10: Stability and reactivity

#### 10.1. Reactivity

No hazards to be specially mentioned.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Conditions to avoid No conditions to be specially mentioned.

#### 10.5. Incompatible materials

Material to avoid No materials to be especially mentioned.

#### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

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## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

##### Product

Acute oral toxicity                      Remarks: This information is not available.

Acute inhalation toxicity                Remarks: This information is not available.

Acute dermal toxicity                    Symptoms: Redness, Local irritation

##### Components

##### **5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione:**

Acute oral toxicity                      LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity                    LD50 (Rabbit): > 2,000 mg/kg

##### **molybdenum disulphide**

Acute oral toxicity                      LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity                    LD50 (Rat): > 16,000 mg/kg

#### Skin corrosion/irritation

##### Product

Remarks: This information is not available.

##### Components

##### **5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione:**

Species: Rabbit  
Assessment: No skin irritation  
Result: No skin irritation

##### **molybdenum disulphide**

Assessment: No skin irritation  
Result: No skin irritation

#### Serious eye damage/eye irritation

##### Product

Remarks: This information is not available.



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#### Components

##### **5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione:**

Species: Rabbit  
Assessment: No eye irritation  
Result: No eye irritation

##### **molybdenum disulphide**

Assessment: No eye irritation  
Result: No eye irritation

#### **Respiratory or skin sensitisation**

#### Product

Remarks: This information is not available.

#### Components

##### **5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione:**

Assessment: The product is a skin sensitiser, sub-category 1B.  
Result: The product is a skin sensitiser, sub-category 1B.

##### **molybdenum disulphide**

Assessment: Does not cause skin sensitisation.  
Result: Does not cause skin sensitisation.

#### **Germ cell mutagenicity**

#### Product

Gentoxicity in vitro                      Remarks: No data available

Gentoxicity in vivo                        Remarks: No data available

#### Components

##### **molybdenum disulphid**

Germ cell mutagenicity-                      Animal testing did not show any mutagenic effects.  
Assessment

#### **Carcinogenicity**

#### Product

Remarks: No data available

#### Components

##### **molybdenum disulphid**

Carcinogenicity -                              No evidence of carcinogenicity in animal studies.  
Assessment

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#### Reproductive toxicity

##### Product

Effects on fertility                      Remarks: No data available

Effects on foetal development      Reamrks: No data available

#### STOT – single exposure

##### Components

###### **molybdenum disulphid**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### STOT – repeated exposure

##### Components

###### **molybdenum disulphid**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Repeated dose toxicity

##### Product

Remarks: This information is not available.

#### Aspiration toxicity

##### Product

This information is not available.

#### Further information

##### Product

Remarks: Information given is based on data on the components and the toxicology of similar products.

##### Components

###### **molybdenum disulphid**

Remarks: Information given is based on data on the components and the toxicology of similar products.

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## Section 12: Ecological information

### 12.1. Toxicity

#### Product

Toxicity to fish                      Remarks: No data available

Toxicity to daphnia and other      Remarks: No data available  
aquatic invertebrates

Toxicity to algae                      Remarks: No data available

Toxicity to microorganisms        Remarks: No data available

#### Components

##### **5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione:**

Toxicity to fish                      LC50 (Fish): > 454 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other      EC50 (Daphnia magna (Water flea)): 3 mg/l  
aquatic invertebrates              Exposure time: 48 h

Toxicity to algae                      EC50 (algae): 20 mg/l  
Exposure time: 72 h

##### **molybdenum disulphid**

Toxicity to fish                      LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other      EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates              Exposure time: 48 h

Toxicity to algae                      EC50 (Pseudokirchneriella subcapitata (green algae)): > 100  
mg/l  
Exposure time: 72 h

### 12.2. Persistence and degradability

#### Product

Biodegradability                      Remarks: No data available

Physico-chemical                    Remarks: No data available  
removability

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#### Components

##### **5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione:**

Biodegradability	Result: Not rapidly biodegradable
	Biodegradation: 0%
	Exposure time: 28 d
	Method: OECD Test Guideline 301B

#### 12.3. Bioaccumulative potential

##### Product

Bioaccumulation	Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).
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#### 12.4. Mobility in soil

##### Product

Mobility	Remarks: No data available
Distribution among environmental compartments	Remarks: No data available

#### 12.5. Results of PBT and VPvB assessment

##### Product

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.
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#### 12.6. Other adverse effects

##### Product

Additional ecological information	No information on ecology is available.
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## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Product	The product should not be allowed to enter drains, water courses or the soil.  Waste codes should be assigned by the user based on the application for which the product was used.
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Contaminated packaging      Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

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#### Section 14: Transport information

##### 14.1. UN number

ADR	Not regulated as a dangerous good
IMDG	Not regulated as a dangerous good
IATA	Not regulated as a dangerous good

##### 14.2. UN proper shipping name

ADR	Not regulated as a dangerous good
IMDG	Not regulated as a dangerous good
IATA	Not regulated as a dangerous good

##### 14.3. Transport hazard class(es)

ADR	Not regulated as a dangerous good
IMDG	Not regulated as a dangerous good
IATA	Not regulated as a dangerous good

##### 14.4. Packing group

ADR	Not regulated as a dangerous good
IMDG	Not regulated as a dangerous good
IATA (Cargo)	Not regulated as a dangerous good
IATA (Passenger)	Not regulated as a dangerous good

##### 14.5. Environmental hazards

ADR	Not regulated as a dangerous good
IMDG	Not regulated as a dangerous good
IATA (Passenger)	Not regulated as a dangerous good
IATA (Cargo)	Not regulated as a dangerous good

##### 14.6. Special precautions for user

No special precautions required.

##### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks	Not applicable for product as supplied.
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#### Section 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV)	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants.	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable
Volatile organic compounds	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0.05 % Remarks: VOC content excluding water

##### 15.2. Chemical safety assessment

This information is not available.

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#### Section 16: Other information

##### Full text of H-Statements

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

##### Full text of other abbreviations

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

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