

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : IKV-TRIBOGear 220  
Product code : IGEARHK01  
Type of product : Oil

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use  
Industrial/Professional use spec : For professional use only  
Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

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

IKV TRIBOLOGIE  
ZA Les Sables - Les Prés Gaud  
F-26260 St Donat sur l'Herbasse  
France  
T +33 (0)4 75 45 06 45 - F +33 (0)4 75 45 28 09  
[MSDS@ikv.fr](mailto:MSDS@ikv.fr) - [www.ikvtribologie.com](http://www.ikvtribologie.com)

#### 1.4. Emergency telephone number

Emergency number : France\_Tel ORFILA (INRS) : 33 (0)1 45.42.59.59 - EU\_Tel : 112

Country	Organisation/Company	Address	Emergency number	Comment
Greece	Poisons Information Centre Children's Hospital "Aglaia. Kyriakou"	11527 Athens	+30 10 779 3777	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

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### 2.3. Other hazards

PBT: not relevant – no registration required  
vPvB: not relevant – no registration required

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Seek medical attention if ill effect develops.
First-aid measures after ingestion	: Do NOT induce vomiting. Allow the victim to rest. If swallowed, seek medical advice immediately and show this container or label.

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

Symptoms/effects after inhalation	: Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation.
Symptoms/effects after skin contact	: Repeated or prolonged skin contact may cause dermatitis and defatting.
Symptoms/effects after ingestion	: Ingestion may cause nausea, vomiting and diarrhea.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Foam. Dry powder.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Explosion hazard	: Product is not explosive.
Hazardous decomposition products in case of fire	: Thermal decomposition generates : Carbon monoxide. fume. Toxic vapours.

### 5.3. Advice for firefighters

Precautionary measures fire	: Evacuate the personnel away from the fumes.
Firefighting instructions	: Prevent fire fighting water from entering the environment. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

General measures	: Remove ignition sources. May be dangerously slippery if spilled. Do not get in eyes, on skin, or on clothing.
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### 6.1.1. For non-emergency personnel

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|----------------------|---|
| Protective equipment | : Wear suitable protective clothing.  |
| Emergency procedures | : Keep public away from danger area. Do not breathe fumes from fires or vapours from decomposition. |

### 6.1.2. For emergency responders

- |                      |  |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
|----------------------|--|

## 6.2. Environmental precautions

Notify authorities if liquid enters sewers or public waters. Prevent entry to sewers and public waters.

## 6.3. Methods and material for containment and cleaning up

- |                         |   |
|-------------------------|---|
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Dispose of at a licensed waste collection centre. |
|-------------------------|---|

## 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Provide good ventilation in process area to prevent formation of vapour. Use personal protective equipment as required. No open flames. No smoking. Avoid breathing vapours, fume, spray. Avoid contact with skin, eyes and clothing. Use only non-sparking tools. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Take precautionary measures against static discharge. |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.  |

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

- |                            |  |
|----------------------------|--|
| Storage conditions         | : Store in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a dry place. Keep container closed when not in use. |
| Storage temperature        | : 5 – 40 °C  |
| Heat and ignition sources  | : Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.  |
| Storage area               | : Store in a well-ventilated place.  |
| Special rules on packaging | : Keep only in original container. Store in a closed container.  |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

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### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

##### Eye protection:

Use splash goggles when eye contact due to splashing is possible

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

In case of repeated or prolonged contact wear gloves. Nitrile-rubber protective gloves. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

No data available.

#### Consumer exposure controls:

No data available.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Oil.
Colour	: amber.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 270 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 0.9
Solubility	: Material insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 220 mm <sup>2</sup> /s (40°C)
Viscosity, dynamic	: No data available

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Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not expected to present a significant hazard under anticipated conditions of normal use.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Overheating. Do not breathe fumes from fires or vapours from decomposition.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

None under normal conditions. Thermal decomposition generates : fume. Carbon monoxide. Toxic vapours.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	220 mm <sup>2</sup> /s (40°C)
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Potential adverse human health effects and symptoms	: Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation, Repeated or prolonged skin contact may cause dermatitis and defatting
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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: Notify authorities if product enters sewers or public waters. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

#### 12.2. Persistence and degradability

##### IKV-TRIBOGEAR 220

Persistence and degradability	Not established.
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#### 12.3. Bioaccumulative potential

##### IKV-TRIBOGEAR 220

Bioaccumulative potential	Not established.
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#### 12.4. Mobility in soil

##### IKV-TRIBOGEAR 220

Ecology - soil	Not established.
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#### 12.5. Results of PBT and vPvB assessment

##### IKV-TRIBOGEAR 220

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

#### Rail transport

No data available

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### 15.1.2. National regulations

<b>France</b>	
<b>Occupational diseases</b>	
Code	Description
RG 36	Diseases caused by oils and fats of mineral or synthetic origin

#### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

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### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### Poland

Polish National Regulations : Regulation of Polish law.

### Switzerland

Storage class (LK) : LK 10/12 - Liquids

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
3	Composition/information on ingredients	Modified	
4.2	Symptoms/effects after inhalation	Added	
7.2	Storage conditions	Modified	
8.2	Eye protection	Modified	
8.2	Appropriate engineering controls	Modified	
16	Abbreviations and acronyms	Modified	

### Abbreviations and acronyms:

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
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
EC50	Median effective concentration
PNEC	Predicted No-Effect Concentration
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
ATE	Acute Toxicity Estimate
PBT	Persistent Bioaccumulative Toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail



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### Abbreviations and acronyms:

vPvB	Very Persistent and Very Bioaccumulative
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
SDS	Safety Data Sheet
WGK	Water Hazard Class

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

### Full text of H- and EUH-statements:

EUH210	Safety data sheet available on request.
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Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.