

SAFETY DATA SHEET

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

Revision date: 22-Feb-2016

Print date: 26-Feb-2016

Version: 1.0

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EXCEL-G, AGX, ULTRA-SR (Twin tube gas shock absorber)

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

1.1. Product identifier

Trade name/designation:

EXCEL-G, AGX, ULTRA-SR (Twin tube gas shock absorber)

Additional information:

Voluntary safety information following the Safety Data Sheet format according to Regulation (EC) No. 1907/2006 (REACH):

This product is not subject to Regulation (EC) no. 1272/2008 [CLP] and do not require labeling according this regulation. This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

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

Use of the substance/mixture:

Shock absorber for motor vehicles.
Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

KYB Europe GmbH

Kimplerstraße 336

47807 Krefeld

GERMANY

Telephone: +49 (0) 21 51 - 93 14 3 - 0

Telefax: +49 (0) 21 51 - 93 14 3 - 29

Website: <http://www.kyb-europe.com>

E-mail (competent person): s.borgmann@kyb-europe.com

Mr. Sebastian Borgmann, Telephone: +49 (0) 21 51 - 93 14 3 - 19, Telefax: +49 (0) 21 51 - 93 14 3 - 40

1.4. Emergency telephone number

+49 (0) 21 51 - 93 14 3 - 0 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: -

Supplemental Hazard information (EU): -

Precautionary statements: -

2.3. Other hazards

Adverse physicochemical effects:

Container is under pressure. Heating causes rise in pressure with risk of bursting.

Adverse human health effects and symptoms:

The product contains Hydrocarbons. May be fatal if swallowed and enters airways. May cause skin irritation.

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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Shock absorber. Contains: Hydraulic oils and Nitrogen (Gas under pressure).

Additional information:

The twin tube shock absorber contains 0.01 to 0.3 l compressed gas (nitrogen) at a pressure of 0 to 10 bar. The maximum product of pressure and volume is 3 bar * l.

The article does not contain SVHCs (substances of very high concern) in a proportion $\geq 0.1\%$.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Mechanical processing may cause dust. May cause respiratory irritation. Provide fresh air.

In case of skin contact:

No special measures are necessary.

The product contains Hydrocarbons. In case of skin contact: Wash with plenty of soap and water.

After eye contact:

Mechanical processing may cause dust. May cause eye irritation. Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion:

This route of exposure is eliminated.

The product contains Hydrocarbons. After ingestion: Do NOT induce vomiting. Get immediate medical advice/attention.

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

No known symptoms to date.

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:

Product does not burn. Use extinguishing measures to suit surroundings.

5.2. Special hazards arising from the substance or mixture

Caution! Container under pressure. Heating causes rise in pressure with risk of bursting.

Hazardous combustion products:

In case of fire may be liberated: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Use water spray to keep fire-exposed containers cool. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

If leakage: Provide adequate ventilation. Do not breathe aerosol. Avoid contact with eyes and skin.

Remove all sources of ignition. Special danger of slipping by leaking/spilling product. Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Water with tenside additive

6.4. Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Container is under pressure. Heating causes rise in pressure with risk of bursting. Do not open container by force. Wear personal protection equipment (refer to section 8). If leakage: Avoid contact with eyes and skin.

Fire prevent measures:

No special measures are necessary.

Environmental precautions:

Discharge into the environment must be avoided.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Apply skin care products after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store in a cool dry place. Keep away from heat.

Hints on storage assembly:

Do not store together with: flammable liquids, flammable solids. Keep/Store away from combustible materials.

Storage class: 2 A - Gases

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7.3. Specific end use(s)

Recommendation:

shock absorber for motor vehicles.
Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control Parameters

No data available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment



Eye/face protection:

Eye protection: not required.
If leakage: Eye glasses with side protection (DIN EN 166).

Skin protection:

Recommendation: Protective gloves against mechanical hazard.
If leakage: Wear suitable gloves (DIN EN 374).
Suitable material: NBR (Nitrile rubber)

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. The exact break through time has to be obtained from the protective glove manufacturer and must be observed. Check leak tightness/ impermeability prior to use.

Respiratory protection:

Usually no personal respiratory protection necessary.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Filtering device (full mask or mouthpiece) with filter: A-P2

Other protection measures:

Wear suitable protective clothing.

8.2.3. Environmental exposure controls

No data available.

8.3. Additional information

No data available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid, Molded part

Colour: not determined

Odour: odourless

Safety relevant basis data

Parameter		at °C	method	Remark
pH	<i>not applicable</i>			
Melting point/freezing point	<i>not applicable</i>			
Freezing point	<i>not applicable</i>			
Initial boiling point and boiling range	<i>not applicable</i>			
Decomposition temperature	<i>not applicable</i>			
Flash point	<i>not applicable</i>			

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Parameter		at °C	method	Remark
Evaporation rate	<i>not applicable</i>			
Ignition temperature	<i>not applicable</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not applicable</i>			
Vapour density	<i>not applicable</i>			
Density	<i>not determined</i>			
Bulk density	<i>not applicable</i>			
Water solubility	insoluble			
Partition coefficient: n-octanol/ water	<i>not applicable</i>			
Dynamic viscosity	<i>not applicable</i>			
Kinematic viscosity	<i>not applicable</i>			

9.2. Other information

Hydraulic oils:

Cinematic viscosity (40°C): 12,8 mm²/s

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat. Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

In case of fire may be liberated: Gases/vapours, toxic

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

The product contains Hydrocarbons. May cause skin irritation.

Eye damage/irritation:

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

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

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Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

The product contains Hydrocarbons. May be fatal if swallowed and enters airways.

Additional information:

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

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

Additional ecotoxicological information:

No data available.

12.2. Persistence and degradability

Biodegradation:

No data available.

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water:

not applicable

Accumulation / Evaluation:

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

16 05 04 *	Gases in pressure containers (including halons) containing dangerous substances
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*: Evidence for disposal must be provided.

Remark:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. For recycling, contact manufacturer.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

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Other disposal recommendations:

Collect in closed and suitable containers for disposal.

13.2. Additional information

Waste for disposal is to be classified and labelled.

SECTION 14: Transport information

Land transport (ADR / RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
3164	3164	3164	3164
14.2. UN proper shipping name			
ARTICLES, PRESSURIZED, HYDRAULIC (containing non-flammable gas)	ARTICLES, PRESSURIZED, HYDRAULIC (containing non-flammable gas)	ARTICLES, PRESSURIZED, HYDRAULIC (containing non-flammable gas)	ARTICLES, PRESSURIZED, HYDRAULIC (containing non-flammable gas)
14.3. Transport hazard class(es)			
 2.2	 2.2	 2.2	 2.2
14.4. Packing group			
not determined	not determined	not determined	not determined
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special provisions: 283, 371, 594 Limited Quantity (LQ): 120 ml Hazard identification number (KemlerNo.): Classification code: not determined Tunnel restriction code: E Remark: -	Special provisions: not determined Limited Quantity (LQ): not determined Classification code: not determined Remark: -	Special provisions: not determined Limited Quantity (LQ): not determined EmS-No.: F-C,S-V Remark: -	Special provisions: not determined Limited Quantity (LQ): not determined Remark: -

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

not relevant

Additional information:

Transport as "Limited Quantity" according to chapter 3.4 ADR/RID.

Transport as "Excepted Quantity" according to chapter 3.5 ADR/RID.

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SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

15.1.2. National regulations

No data available.

15.2. Chemical Safety Assessment

No data available.

15.3. Additional information

No data available.

SECTION 16: Other information

16.1. Indication of changes

No data available.

16.2. 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).

16.3. Key literature references and sources for data

No data available.

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available.

16.6. Training advice

No data available.

16.7. Additional information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. 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. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.