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

#### 1.1 Product identifier

4600 Wels

arecal Nix

**Article number: 0896113400** 

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

#### 1.2.1 Relevant uses

Corrosion protection

1.2.2 Uses advised against

None known.

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

Company Kellner & Kunz AG

Boschstr. 37 4600 Wels / AUSTRIA Phone 0043-7242-484-0 Fax 0043-7242-484-924 Homepage www.reca.co.at E-mail info@reca.co.at

Address enquiries to

Technical information info@reca.co.at
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

**Advisory body** +43 (0) 1 406 43 43 (24h)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if

heated.

STOT SE 3: H336 May cause drowsiness or dizziness.

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

Signal word

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms** 



DANGER

Contains: Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazard statements H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.

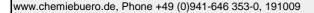
P261 Avoid breathing vapours / spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling EUH066 Repeated exposure may cause skin dryness or cracking.





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## 2.3 Other hazards

**Environmental hazards**Does not contain any PBT or vPvB substances.

Other hazards none

## **SECTION 3: Composition / Information on ingredients**

## Product-type:

#### 3.2 The product is a mixture.

Range [%]	Substance
25 - <50	iso-Butane
	CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119485395-27-XXXX
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
25 - <50	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	EINECS/ELINCS: 927-241-2, Reg-No.: 01-2119471843-32-XXXX
	GHS/CLP: Asp. Tox. 1: H304 - Flam. Liq. 3: H226 - STOT SE 3: H336 - Aquatic Chronic 3: H412
10 - <25	Propane
•	CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, Reg-No.: 01-2119486944-21-XXXX
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
1 - <10	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	EINECS/ELINCS: 918-481-9, Reg-No.: 01-2119457273-39-XXXX
	GHS/CLP: Asp. Tox. 1: H304
1 - <5	Butane
	CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280

**Comment on component parts** 

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

**General information** Take off contaminated clothing and wash before reuse.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**Ingestion** Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

Do not induce vomiting.

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

Headache Irritant effects

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

## 5.1 Extinguishing media

**Suitable extinguishing media** Foam, dry powder, water spray jet, carbon dioxide.

**Extinguishing media that must not** Full water jet.

be used



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

Risk of formation of toxic pyrolysis products. In the event of fire the following can be released:

Carbon monoxide (CO) Not combusted hydrocarbons.

Bursting aerosols can be forcibly projected from a fire.

#### Advice for firefighters

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

### SECTION 6: Accidental release measures

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

Keep away from all sources of ignition.

Ensure adequate ventilation.

#### 6.2 **Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the

authorities

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

Take up mechanically.

Take up residues with absorbent material (f.ex. diatomaceous earth). Dispose of absorbed material in accordance within the regulations.

## Reference to other sections

See SECTION 8+13

# SECTION 7: Handling and storage

## Precautions for safe handling

Use only in well-ventilated areas.

Avoid spilling or spraying in enclosed areas.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Vapours/spray can form an explosive mixture with air.

Do not eat, drink, smoke or take drugs at work.

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

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

Provide solvent-resistant and impermeable floor.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Protect from heat/overheating.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50

°C.

## Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EINECS/ELINCS: 927-241-2, Reg-No.: 01-2119471843-32-XXXX

Long-term exposure: 1200 mg/m³

iso-Butane

CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119485395-27-XXXX

Long-term exposure: 600 ppm, 1450 mg/m³, (Butane)

Short-term exposure (15-minute): 750 ppm, 1810 mg/m<sup>3</sup>

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)

CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX

Long-term exposure: 5 mg/m³, oil mist

Short-term exposure (15-minute): 10 mg/m³

Butane

CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX

Long-term exposure: 600 ppm, 1450 mg/m<sup>3</sup>

Short-term exposure (15-minute): 750 ppm, 1810 mg/m³

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EINECS/ELINCS: 918-481-9, Reg-No.: 01-2119457273-39-XXXX

Long-term exposure: 800 mg/m<sup>3</sup>

## DNEL

## Substance

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Industrial, inhalative, Long-term - systemic effects: 871 mg/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects: 77 mg/kg bw/day.

general population, oral, Long-term - systemic effects: 46 mg/kg bw/day.

general population, dermal, Long-term - systemic effects: 46 mg/kg bw/day.

general population, inhalative, Long-term - systemic effects: 185 mg/m³.

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#### 8.2 **Exposure controls**

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Additional advice on system design Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

Safety glasses. (EN 166:2001) Eye protection

The details concerned are recommendations. Please contact the glove supplier for further Hand protection

information.

0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3).

Skin protection light protective clothing

Other Do not breathe vapour/spray. Avoid contact with eyes and skin.

Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards No information available.

Delimitation and monitoring of the environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit emissions.

## **SECTION 9: Physical and chemical properties**

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

**Form** aerosol Color hrown Odor characteristic

**Odour threshold** No information available.

pH-value not applicable pH-value [1%] not applicable not applicable Boiling point [°C] Flash point [°C] not applicable Flammability (solid, gas) [°C] not applicable Lower explosion limit 0.5 Vol.-% Upper explosion limit 9,4 Vol.-% **Oxidising properties** 

Vapour pressure/gas pressure [kPa] No information available.

0,78 (DIN 51757) Density [g/ml] Bulk density [kg/m³] not applicable Solubility in water insoluble

Partition coefficient [n-octanol/water] No information available.

Viscosity not applicable Relative vapour density determined not applicable

in air

not applicable not applicable Autoignition temperature [°C] not applicable Decomposition temperature [°C] not applicable

92 Other information

**Evaporation speed** 

Melting point [°C]

none

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## SECTION 10: Stability and reactivity

## 10.1 Reactivity

See SECTION 10.3.

## 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

## 10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Risk of bursting.

## 10.4 Conditions to avoid

Strong heating. See SECTION 7.2.

## 10.5 Incompatible materials

No information available.

## 10.6 Hazardous decomposition products

Flammable gases/vapours.



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## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Acute toxicity** 

Product

inhalative. Based on the available information, the classification criteria are not fulfilled:

dermal, Based on the available information, the classification criteria are not fulfilled.:

oral, Based on the available information, the classification criteria are not fulfilled .:

Substance

iso-Butane, CAS: 75-28-5

LC50, inhalative, mouse: 1237 mg/l (2h) (Lit.).

Propane, CAS: 74-98-6

LC50, inhalative, Rat: > 1443 mg/l (15 min) (Lit.).

Butane, CAS: 106-97-8

LC50, inhalative, Rat: 658 mg/l (4 h) (Lit.)

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

LD50, dermal, Rabbit: > 5000 mg/kg bw.

LD50, oral, Rat: > 5000 mg/kg bw.

LC50, inhalative, Rat: > 4951 mg/L

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9

LD50, dermal, Rabbit: > 5000 mg/kg

LD50, oral, Rat: > 5000 mg/kg

LC50, inhalative, Rat: >4951 mg/m<sup>3</sup>

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Skin corrosion/irritation Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled. Respiratory or skin sensitisation

Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

Specific target organ toxicity —

single exposure

Based on the available information, the classification criteria are fulfilled. Vapours may cause drowsiness and dizziness.

Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

Specific target organ toxicity -

repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled. Mutagenicity

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

Carcinogenicity Based on the available information, the classification criteria are not fulfilled. Based on the available information, the classification criteria are not fulfilled. Aspiration hazard

**General remarks** Frequent persistent contact with the skin can cause skin irritation.

> The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Toxicological data of complete product are not available.

## SECTION 12: Ecological information

#### 12.1 Toxicity

Substance

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9

EL50, (72h), Pseudokirchneriella subcapitata: >1000 mg/l.

LL50, (48h), Daphnia magna: >1000 mg/l

LL50, (96h), Oncorhynchus mykiss: > 100 mg/l.



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#### 12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

No information available.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

not applicable

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Other adverse effects

Ecotoxicological data are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

## Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Dispose of as hazardous waste.

Waste no. (recommended) 160504\* gases in pressure containers (including halons) containing dangerous substances

Contaminated packaging

Dispose full / partially emptied cartridges as hazardous waste in accordance with official

regulations.

Waste no. (recommended) 150110\*

## **SECTION 14: Transport information**

#### 14.1 UN number

Transport by land according to

1950

ADR/RID

Inland navigation (ADN) 1950

Marine transport in accordance with

1950

IMDG

Air transport in accordance with IATA 1950

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## 14.2 UN proper shipping name

Transport by land according to

ADR/RID

- Classification Code

- Label

- ADR LQ

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) Aerosols - Classification Code 5F

- Label



Aerosols

F-D, S-U

Aerosols

5F

Marine transport in accordance with

**IMDG** 

- EMS

- Label

- IMDG LQ

Air transport in accordance with IATA Aerosols, flammable

- Label



14.3 Transport hazard class(es)

Transport by land according to 2

ADR/RID

Inland navigation (ADN) 2

Marine transport in accordance with 2.1

**IMDG** 

Air transport in accordance with IATA 2.1

14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

**IMDG** 

Air transport in accordance with IATA not applicable



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#### 14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

Marine transport in accordance with no

**IMDG** 

Air transport in accordance with IATA no

## 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

## **SECTION 15: Regulatory information**

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

**EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions

for people

Observe employment restrictions for young people.

- VOC (2010/75/CE) ca. 98%

## 15.2 Chemical safety assessment

not applicable

## **SECTION 16: Other information**

# 16.1 Hazard statements (SECTION 03)

H412 Harmful to aquatic life with long lasting effects.

H336 May cause drowsiness or dizziness.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways. H280 Contains gas under pressure; may explode if heated.

H220 Extremely flammable gas.

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#### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration

ECB = European Chemicals Bureau EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229

Pressurised container: May burst if heated. (Bridging principle "Aerosols")

STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method [RL (EC) No.

1272/2008 Annex I 1.1.3.7])

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 3 deleted: Benzenesulfonic acid, di-C10-14 alkyl derivs., calcium salts

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

SECTION 8 deleted: Respiratory protection mask in the event of high concentrations.

SECTION 11 deleted: May produce an allergic reaction.

SECTION 12 been added: Ecotoxicological data are not available.

SECTION 12 deleted: Ecological data of complete product are not available.

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