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

1.1 Product identifier

Inox Polish
Article number: 0895113500

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

1.2.1 Relevant uses

Cleaning agent

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]

Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms

Signal word WARNING

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P337+P313 If eye irritation persists: Get medical advice / attention.
P264 Wash hands thoroughly after handling.

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

Cleaner, 648/2004/CE, contains:

15 - <30% aliphatic hydrocarbons
< 5% hydrocarbons aliphatic/aromatic
preservatives BENZISOTHIAZOLINONE
preservatives METHYLCHLOROISOTHIAZOLINONE/METHYLISOTHIAZOLINONE (3:1)

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
10 - <20	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
	CAS: 64742-49-0, EINECS/ELINCS: 920-750-0, Reg-No.: 01-2119473851-33-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Aquatic Chronic 2: H411 - STOT SE 3: H336
1 - <10	Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	EINECS/ELINCS: 926-141-6, EU-INDEX: 649-422-00-2, Reg-No.: 01-2119456620-43-XXXX
	GHS/CLP: Asp. Tox. 1: H304
1 - <10	2-diethylaminoethanol
	CAS: 100-37-8, EINECS/ELINCS: 202-845-2, EU-INDEX: 603-048-00-6, Reg-No.: 01-2119488937-14-XXXX
	GHS/CLP: Skin Corr. 1B: H314 - Flam. Liq. 3: H226 - Acute Tox. 3: H311 - Acute Tox. 3: H331 - Acute Tox. 4: H302 - Eye Dam. 1: H318
1 - <10	Ethanol
	CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319
1 - <10	Hydrocarbons, C10, aromatics, <1% naphthalene
	EINECS/ELINCS: 918-811-1, EU-INDEX: 649-424-00-3, Reg-No.: 01-2119463583-34-XXXX
	GHS/CLP: Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411

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

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 be used Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Not combusted hydrocarbons.
Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
High risk of slipping due to leakage/spillage of product.

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.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Use solvent-resistant equipment.

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 container in a well-ventilated place.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
CAS: 64742-49-0, EINECS/ELINCS: 920-750-0, Reg-No.: 01-2119473851-33-XXXX
Long-term exposure: 1200 mg/m³
Ethanol
CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX
Long-term exposure: 1000 ppm, 1920 mg/m³
Hydrocarbons, C10, aromatics, <1% naphthalene
EINECS/ELINCS: 918-811-1, EU-INDEX: 649-424-00-3, Reg-No.: 01-2119463583-34-XXXX
Long-term exposure: 50 ppm, 300 mg/m³, UK SIA
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EINECS/ELINCS: 926-141-6, EU-INDEX: 649-422-00-2, Reg-No.: 01-2119456620-43-XXXX
Long-term exposure: 1200 mg/m³, OEL

DNEL

Substance
2-diethylaminoethanol, CAS: 100-37-8
Industrial, inhalative, Long-term - local effects: 10,7 mg/m³.
Industrial, inhalative, Long-term - systemic effects: 18,3 mg/m³.
Industrial, dermal, Long-term - systemic effects: 2,5 mg/kg bw/day.
Hydrocarbons, C10, aromatics, <1% naphthalene
Industrial, inhalative, Long-term - systemic effects: 151 mg/m³.
Industrial, dermal, Long-term - systemic effects: 12,5 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 32 mg/m³.
general population, oral, Long-term - systemic effects: 7,5 mg/kg bw/d.
general population, dermal, Long-term - systemic effects: 7,5 mg/kg bw/d.
Ethanol, CAS: 64-17-5
Industrial, inhalative (vapor), Long-term - systemic effects: 950 mg/m³.
Industrial, dermal, Long-term - systemic effects: 343 mg/kg bw/d.
general population, inhalative (vapor), Long-term - systemic effects: 114 mg/m³.
general population, dermal, Long-term - systemic effects: 206 mg/kg bw/d.
general population, oral, Long-term - systemic effects: 87 mg/kg bw/d.
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
worker, dermal, Long-term - systemic effects: 773 mg/kg bw.
worker, inhalative, Long-term - systemic effects: 2035 mg/m³.
general population, inhalative, Long-term - systemic effects: 608 mg/m³.
general population, dermal, Long-term - systemic effects: 699 mg/kg bw.
general population, oral, Long-term - systemic effects: 699 mg/kg bw.

PNEC

Substance
2-diethylaminoethanol, CAS: 100-37-8
sewage treatment plants (STP), 97,7 µg/kg soil dw.
sewage treatment plants (STP), 10 mg/L.
sediment (seawater), 67,3 µg/kg sediment dw.

sediment (freshwater), 673 µg/kg sediment dw.
seawater, 6,23 µg/L.
freshwater, 62,3 µg/L.
Ethanol, CAS: 64-17-5
soil, 0,63 mg/kg.
sediment (freshwater), 3,6 mg/kg.
seawater, 0,79 mg/l.
freshwater, 0,96 mg/l.
oral (food), 0,38 g/kg.
sediment (seawater), 2,9 mg/kg.
sewage treatment plants (STP), 580 mg/l.

8.2 Exposure controls

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.

Eye protection
Safety glasses. (EN 166:2001)

Hand protection
The details concerned are recommendations. Please contact the glove supplier for further information.
0,4 mm Butyl rubber, >120 min (EN 374-1/-2/-3).

Skin protection
light protective clothing

Other
Do not inhale vapours.
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	pasty
Color	grey
Odor	characteristic
Odour threshold	No information available.
pH-value	No information available.
pH-value [1%]	No information available.
Boiling point [°C]	100
Flash point [°C]	>100
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,05 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	> 20,5 mm²/s (40°C)
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

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

Reactions with oxidizing agents.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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
2-diethylaminoethanol, CAS: 100-37-8
LD50, oral, Rat: 1320 mg/kg bw.
LD50, dermal, Guinea pig: 885 mg/kg bw.
LC50, inhalative, Rat: 4,6 mg/L.
Hydrocarbons, C10, aromatics, <1% naphthalene
LD50, dermal, Rabbit: > 3160 mg/kg (IUCLID).
LD50, oral, Rat: > 5000 mg/kg (IUCLID).
LC50, inhalative, Rat: > 11,4 mg/l 4h (IUCLID).
Ethanol, CAS: 64-17-5
LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402).
LD50, oral, Rat: 10470 mg/kg (OECD 401).
LC50, inhalative, Rat: 117-125 mg/l/4h (OECD 403).
NOAEL, Rat: > 3000 mg/kg/d (24 month OECD 451).
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LD50, oral, Rat: > 5000 mg/kg.
LD50, dermal, Rabbit: 2800 mg/kg.
LC50, inhalative, Rat: > 23,3 mg/l (4h).
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, dermal, Rabbit: > 5000 mg/kg bw.
LD50, oral, Rat: > 5000 mg/kg bw.
LC50, inhalative, Rat: > 4,951 mg/l 4h.

Serious eye damage/irritation	Based on the available information, the classification criteria are fulfilled. Calculation method
Skin corrosion/irritation	Based on the available information, the classification criteria are fulfilled. Calculation method
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled. Calculation method
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
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.
Aspiration hazard	v > 20,5 mm²/s (40°C) Based on the available information, the classification criteria are not fulfilled.
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
2-diethylaminoethanol, CAS: 100-37-8
LC50, (96h), Leuciscus idus: >147 mg/L.
EC50, (72h), Scenedesmus subspicatus: >28 mg/L.
EC50, (48h), Daphnia magna: >83,6 mg/L.
Hydrocarbons, C10, aromatics, <1% naphthalene
LC50, (96h), Pimephales promelas: 45 mg/l (IUCLID).
EC50, (48h), Daphnia magna: 0,95 mg/l (IUCLID).
Ethanol, CAS: 64-17-5
LC50, (96h), Oncorhynchus mykiss: 13000 mg/l (OECD 203).
LC50, (48h), Daphnia magna: 12340 mg/l.
EC50, (72h), Algae: 275 mg/l (OECD 201).
EC50, (48h), Selenastrum capricornutum: 12900 mg/l (OECD 201).
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LC50, (96h), Daphnia magna: < 10 mg/l.
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EL0, (72h), Pseudokirchneriella subcapitata: 1000 mg/l.
EL0, (48h), Daphnia magna: 1000 mg/l.
LL0, (96h), Oncorhynchus mykiss: 1000 mg/l.

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

No information available.

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

Observe national and local legal requirements.
Coordinate disposal with the authorities if necessary.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 070604*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
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. 33%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H319 Causes serious eye irritation.
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H331 Toxic if inhaled.
H311 Toxic in contact with skin.
H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.
H225 Highly flammable liquid and vapour.

16.2 Abbreviations and acronyms:

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

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 3 deleted: Ethanol

SECTION 3 deleted: Hydrocarbons, C10, aromatics, <1% naphthalene

SECTION 3 been added: Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

SECTION 3 been added: 2-diethylaminoethanol

SECTION 3 been added: Ethanol

SECTION 3 been added: Hydrocarbons, C10, aromatics, <1% naphthalene

SECTION 2 been added: H319 Causes serious eye irritation.

SECTION 2 been added: Skin Irrit. 2

SECTION 2 been added: exclamation mark

SECTION 2 been added: WARNING

SECTION 2 been added: H315 Causes skin irritation.

SECTION 2 been added: P264 Wash hands thoroughly after handling.

SECTION 2 been added: Eye Irrit. 2

SECTION 2 been added: P280 Wear protective gloves / eye protection / face protection.

SECTION 2 been added: P337+P313 If eye irritation persists: Get medical advice / attention.

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

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

SECTION 11 deleted: Based on the available information, the classification criteria are not fulfilled.

SECTION 11 been added: Based on the available information, the classification criteria are fulfilled.

SECTION 11 deleted: No classification due to substance-specific concentration limits.

SECTION 11 deleted: Based on the available information, the classification criteria are not fulfilled.

SECTION 11 been added: Based on the available information, the classification criteria are fulfilled.

SECTION 11 been added: Calculation method

SECTION 16 deleted:

SECTION 16 been added: Calculation method

SECTION 16 been added: Calculation method