



1. Identification of the substance/mixture and of the company/undertaking

Name of the product	KS-RAPID (liquid)
Manufacturer/distributor	K+S INDUSTRIEBEDARF GmbH Steige 4 D-69436 Schönbrunn Tel: +49 (0) 62 62/38 99 Fax: +49 (0) 62 62/38 74
Emergency advice	Phone: +49 (0) 62 62/38 99 (K+S INDUSTRIEBEDARF GmbH, Frau Schmitt) +49 (0) 89/1 92 40 (Giftnotruf München)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC

F: R11
Xi: R38
N: R50/53
Xn: R65
R67

R-phrases

11 Highly flammable
38 Irritating to the skin
50/53 Very toxic: to aquatic organism, may cause long-term adverse effects in the aquatic environment
65 Harmful: may cause lung damage if swallowed
67 Vapours may cause drowsiness and dizziness

2.2 Label elements

Labelling according to 1999/45/EC

Remarks for labelling

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

F Highly flammable
Xn Harmful
N Dangerous for the environment

K+S Adhesive

Safety Data-sheet



R-Phrases

11	Highly flammable
38	Irritating to the skin
50/53	Very toxic to aquatic organisms, may cause long-term adverse
65	Harmful: may cause lung damage if swallowed
67	Vapours may cause drowsiness and dizziness

S-Phrases

16	Keep away from sources of ignition - No smoking
2	Keep out of reach of children
23	Do not breathe vapour
29	Do not empty into drains
33	Take precautionary measures against static discharges
60	This material and its container must be disposed of as hazardous waste
61	Avoid Release to environment. Refer to special instructions/safety data sheets
62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label
9	Keep container in a well ventilated place.

Hazardous ingredients for labelling

Heptane

2.3. Other hazards

Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII

3. Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Description

Preparation of surface activating agents in heptane

Hazardous ingredients

CAS No.	EC no	Name	[% weight]	Classification according to 67/548/EEC
142-82-5	205-563-8	n-heptane	> 25	F R11; Xn R65; Xi R38; R67; N R50-53
		Aromatisches Amin	<=0,5	

CAS No.	EC No.	Name	[%weight]	Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
142-82-5	205-563-8	n-heptane	>25	Flam. Liq. 2, H225/ Asp. Tox. 1, H304/ Skin irrit. 2, H315/STOT SE3, H336/ Aquatic Acute 1, H400/ Aquatic Chronic 1, H410
		Aromatisches Amin	<=0,5	Acute Tox. 3, H330/Acute Tox.3, H331/ Acute Tox. 3, H301/STOT RE2, H373/ Aquatic Chronic, H412

4. First Aid measures

4.1 Description of first aid measures

General information

Remove contaminated soaked clothing immediately

In case of Inhalation

Remove the casualty into fresh air and keep him immobile.
In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.

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4. First Aid measures

4.1 Description of first aid measures

In case of eye contact

In case of contact with eyes rinse thoroughly with water.
Call for a doctor immediately.

In case of ingestion

Do not induce vomiting.
Medical treatment.
Rinse out mouth and give plenty of water to drink.

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

No information available

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

No information available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam
Dry fire-extinguishing substances
Carbon dioxide
Sand

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substances or mixture

Fire gas of organic material has be classed invariably as respiratory poison.

5.3. Advice for firefighters

Special protective equipment for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information

Cool containers at risk with water spray jet.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Use personal protective clothing
Keep away sources of ignition

6.2. Environmental precautions

Do not discharge into the drains of bodies of water.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material
After taking up the material dispose according to regulation

6.4. Reference to other sections

No information available



7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in a well ventilated area with local exhaust ventilation at workplace.

General protective measures

Do not inhale vapours.

Avoid contact with eyes and skin.

Hygiene measures

At work do not eat, drink, smoke or take drugs

Wash hands before breaks and after work

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

7.2 Conditions for safe storage, including and incompatibilities

Further information on storage conditions

Keep container tightly closed.

Protect from sparks and flames.

Keep container in a well-ventilated place

Protect from heat/overheating

7.3 Specific end use(s)

No information available

8. Exposure controls/personal protection

8.1 Control parameters

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2008/15/EC or 2009/161/EU)

CAS-No.	Name	Code	(mg/m ³)	(ml/m ³)	Remark
000142-82-5	n-heptane	8 hours	2085	500	

8.2. Exposure controls

Respiratory protection

In ventilation insufficient, wear respiratory protection.

Short-term: filter apparatus, filter AX, otherwise environment-independent breathing apparatus.

Hand protection

In the case of special applications it is recommended to check the chemical resistance with the manufacturer of the gloves.
Glove material specification (make/type, thickness, permeation time/life, wetting resistance): Nitrile rubber, 0,4mm, 480min; 60min.)

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the Concentration and amounts of dangerous goods in the specific working tasks.

Eye protection

safety goggles

Skin protection

protective clothing



9. Physical and chemical properties

9.1 information on basic physical and chemical properties

Form: liquid **Colour:** yellow, clear **Odour:** like petrol (gasoline)

Important health, safety and environmental information

	Value	Temperature	At	Method	Remark
boiling point	from 95 °C				
melting point	< 0 °C				
flash point	0 °C				
combustion temperature	> 200 °C				
lower explosion limit	0,6 Vol-%				
upper explosion limit	7 Vol-%				
vapour pressure	130 hPa	20 °C			
relative density	0,71 g/ml	20 °C			
solubility in water		20 °C			Insoluble
viscosity dynamic	< 10 mPas	20 °C		Brookfield	
solvent concentration	100 %				

9.2. Other information

No information available

10. Stability and reactivity

10.1. Reactivity

No information available

10.2. Chemical stability

No information available

10.3. Possibility of hazardous reactions

No information available

10.4. Conditions to avoid

Keep away from heat

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

No hazardous decomposition products known.

Thermal decomposition

Remark: No decomposition if suitable use.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity/irritability/sensitization

	Value/validation	Species	Method	Remark
LD 50 acute oral	> 2.000 mg/kg	rat		
Irritable eye	low irritant			

Experiences made from practice

Often an long skin contact may cause degreasing and desiccation of the skin which may cause skin irritation.

Inhalation causes headache/nausea

Inhalation causes narcotic effect/intoxication.



11. Toxicological information

Additional information

The product is to be handled with caution usual with chemicals.
Other hazardous properties may not be excluded.

12. Ecological information

12.1. Toxicity

No information available

12.2. Persistence and 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

The substance does not meet the PBT/bPvB criteria of REACH, annex XIII

12.6. Other adverse effects

General regulation

Do not discharge product unmonitored into environment.
Product is not allowed to discharge into aquatic environment.

13. Disposal considerations

13.1. Waste treatment methods

Recommendation of the product

Remove in accordance with local official regulations.
Product rests: send for disposal, e.g. special waste incineration.

Recommendation for packaging

Dispose of according to the local waste regulations.
Packaging that cannot be cleaned should be disposed of like the product.

14. Transport information

Land and inland navigation transport (AOR/RIO)

UN 1206 HEPTANES, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, Classification code: F1)

Marine Transport IMDG

UN 1206 HEPTANES, 3, II
MARINE POLLUTANT: Yes

Air transport ICAO/IATA-OGR

UN 1206 HEPTANES, 3, II
ENVIRONMENTALLY HAZARDOUS: Yes

Special precautions for user

No information available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable



15. Regulatory information

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

VOC standard

16. Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed

Further information

The information in this Safety-Data-Sheet is based on our present knowledge. However, it does not represent a guarantee for any specific product features and does not establish a contractual relationship.

Wording of the r/H phrases in chapter 3 (not the classification of the mixture)

R11	Highly flammable
R23/24/25	Toxic by inhalation in contact with skin and if swallowed
R33	Danger of cumulative effects
R 38	Irritating to skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H373	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects