

Safety Data Sheet

GHS VERSION

Article No.: 24401
Print date 19.02.2016
Version 1.2

FAST LIQUID HAZE REM.
Revision date 18.02.2016
Issue date 29.01.2016



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

1.1. Product identifiers

Article No. (manufacturer/supplier): 24401
Identification of the substance or mixture FAST LIQUID HAZE REM.

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

Relevant identified uses

Cleaning agent, alkaline. Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

KIWO Inc.
1929 Marvin Circle Telephone: +1 281-474-9777
Seabrook, TX 77586 Telefax: +1 281-474-7325
USA

1.4. Emergency telephone number

Emergency telephone: 1-800-255-3924 / +1 813-248-0573 (ChemTel)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS

This mixture is classified as hazardous according to GHS

Flam. Liq. 4 / H227	flammable liquids	Combustible liquid.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1A / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Repr. 1B / H360	Reproductive toxicity	May damage the unborn child.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. Label elements

The product is classified and labelled according to GHS.

Labelling according to GHS

Hazard pictograms



Danger

Hazard statements

H227 Combustible liquid.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H360 May damage the unborn child.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapour.
P280 Wear protective gloves and eye/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER or doctor/ physician.
P370 + P378 In case of fire: Use Extinguishing powder or sand to extinguish.

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P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P403 + P235 Store in a well-ventilated place. Keep cool.

contains:

potassium hydroxide
 Citrus terpenes
 N-methyl-2-pyrrolidone

2.3. Other hazards

3. Composition / Information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description Mixture of components, as listed below, with nonhazardous constituents

Hazardous ingredients

Classification according to GHS

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
212-828-1 872-50-4 606-021-00-7	01-2119472430-46-0001 N-methyl-2-pyrrolidone Repr. 1B H360 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315	10 - 30
203-905-0 111-76-2 603-014-00-0	01-2119475108-36 2-butoxyethanol Acute Tox. 4 H332 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Skin Irrit. 2 H315	10 - 30
203-539-1 107-98-2 603-064-00-3	01-2119457435-35 1-methoxy-2-propanol Flam. Liq. 3 H226 / STOT SE 3 H336	5 - 10
202-625-6 97-99-4 603-061-00-7	tetrahydro-2-furymethanol Repr. 1B H360 / Eye Irrit. 2 H319	5 - 10
215-181-3 1310-58-3 019-002-00-8	potassium hydroxide Acute Tox. 4 H302 / Skin Corr. 1A H314	5 - 10
204-589-7 122-99-6 603-098-00-9	01-2119488943-21-x 2-phenoxyethanol Acute Tox. 4 H302 / Eye Irrit. 2 H319	5 - 10
618-541-1 9036-19-5	polymer: alcohols C16-C18, ethoxylated Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Aquatic Acute 1 H400 / Aquatic Chronic 3 H412 Acute Tox. 4 H302 / Eye Dam. 1 H318 / Aquatic Chronic 3 H412	5 - 10 1 - 5
304-454-3 94266-47-4	Citrus terpenes Flam. Liq. 3 H226 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Asp. Tox. 1 H304 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	1 - 5
203-868-0 111-42-2 603-071-00-1	Haz. ingredient = trade secret Skin Irrit. 2 H315 / Eye Irrit. 2 H319 01-2119488930-28-0005 2,2'-iminodiethanol Acute Tox. 4 H302 / STOT RE 2 H373 / Skin Irrit. 2 H315 / Eye Dam. 1 H318	1 - 5 1 - 5

Additional information

Full text of classification: see section 16

4. First-aid measures

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4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. Remove contaminated, saturated clothing immediately.

After eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Remove contact lenses.

After ingestion

Seek medical advice immediately. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide Water mist Foam

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Gases/vapours, toxic

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device.

Additional information

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Do not breathe vapours. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Provide good ventilation.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13).

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

7. Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with skin and eyes. Do not inhale vapours or mist. Avoid: aerosol or mist formation Do not mix with other chemicals.

Do not eat, drink or smoke when using this product.

Personal protection equipment: refer to chapter 8.

Follow the legal protection and safety regulations.

7.2. Conditions for safe storage, including any incompatibilities

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Technical measures and storage conditions

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

Requirements for storage rooms and vessels

Always keep in containers that correspond to the material of the original container.

Hints on joint storage

Do not store together with:
Acids, Oxidising agent

Additional information

VCI-storage class, see Chapter 15

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

8. Exposure controls / Personal protection

8.1. Control parameters

Occupational exposure limit values:

n.a.

DNEL:

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg

DNEL long-term dermal (systemic), Workers: 75 mg/kg

DNEL acute inhalative (local), Workers: 246 mg/m³

DNEL acute inhalative (systemic), Workers: 663 mg/m³

DNEL long-term inhalative (systemic), Workers: 98 mg/m³

PNEC:

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

PNEC aquatic, freshwater: 8.8 mg/L

PNEC aquatic, marine water: 0.88 mg/L

PNEC sediment, freshwater: 34.6 mg/kg

PNEC sediment, marine water: 3.46 mg/kg

PNEC, Soil: 2.8 mg/kg

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. Do not breathe vapour/aerosol.

Personal protection equipment

Respiratory protection

When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used. Observe the wear time limits according to GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Hand protection

Wear chemical resistant protective gloves.

Eye protection

Wear closed protection glasses.

Protective clothing

Protective clothing Alkali-resistant

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state liquid

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Colour refer to label
Odour characteristic

Safety relevant basis data

		Method	Remark
Flash point:	> 73 °C	ASTM D 93 Pensky-Martens	
Ignition temperature (AIT)	230 °C		
Lower explosion limit	1.3 Vol-%		
Upper explosion limit	13.7 Vol-%		
Vapour pressure at 20 °C:	4.64 mbar		
Density at 20 °C:	1.02 g/cm ³		
Water solubility (g/L)	partially soluble		
pH at 20 °C:	14.00		
Viscosity at °C:			
Initial boiling point and boiling range	100 °C (101,3 kPa)		
Decomposition temperature (°C):	0		

9.2. Other information:

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

11. Toxicological information

Classification for mixtures and used evaluation method according to GHS

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

oral, LD50, Rat:

Citrus terpenes

dermal, LD50, Rabbit: > 5000 mg/kg

skin corrosion/irritation; Serious eye damage/eye irritation

Eyes

Respiratory or skin sensitisation

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Citrus terpenes

Aspiration hazard

Practical experience/human evidence

Other observations:

Causes severe skin burns and eye damage.

Overall Assessment on CMR properties

EC No.	Chemical name
CAS No. 212-828-1 872-50-4	N-methyl-2-pyrrolidone

Classification according to GHS
Repr. 1B

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202-625-6 tetrahydro-2-furylmethanol
97-99-4

Repr. 1B

Remark

There is no information available on the preparation itself .

12. Ecological information

overall evaluation

Classification for mixtures and used evaluation method according to GHS

Do not store at public landfills.
Reserved for industrial and professional use.

12.1. Toxicity

No information available.

Long-term Ecotoxicity

Toxicological data are not available.

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

Toxicological data are not available.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT assessment

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

12.6. Other adverse effects

13. Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

packaging

Recommendation

Non-contaminated packages may be recycled.Vessels not properly emptied are special waste.

14. Transport information

14.1. UN number

1719

14.2. UN proper shipping name

Land transport (ADR / RID / DOT):

Caustic alkali liquid, n.o.s.
(Potassium hydroxide solution)

Sea transport (IMDG):

CAUSTIC ALKALI LIQUID, N.O.S.
(Potassium hydroxide solution)

Air transport (ICAO-TI / IATA-DGR):

Caustic alkali liquid, n.o.s.
(Potassium hydroxide solution)

14.3. Transport hazard class(es)

8

14.4. Packing group

II

14.5. Environmental hazards

Land transport (ADR/RID)

environmental hazard

Marine pollutant

n.a.

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14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Additional information

Land transport (ADR/RID)

tunnel restriction code E

Sea transport (IMDG)

EmS-No. F-A, S-B
Segregation group IMDG Code segregation group 18 - alkalis
Packaging >30 l

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

not applicable

15. Regulatory information

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

EU legislation

Observe in addition any national regulations!

calculated with mixing rule

Substance/product listed in the following inventories:

Not listed in TOXIC SUBSTANCES CONTROL ACT (TSCA)

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

16. Other information

Full text of classification in section 3:

Repr. 1B / H360	Reproductive toxicity	May damage the unborn child.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Repr. 1B / H360	Reproductive toxicity	May damage the unborn child. Suspected of damaging fertility.
Skin Corr. 1A / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Additional information

Classification for mixtures and used evaluation method according to GHS

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The information supplied on this safety data sheet is correct to the best of our knowledge. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.