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1 Identification

- · Product identifier
- · Trade name: BRAKE CLEAN
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture

Only for proper handling. detergent

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MOTOREX AG

Bern-Zürich-Strasse 31, Postfach

CH-4901 Langenthal

Tel. +41 (0)62 919 75 75

www.motorex.com

A1 Accessory Imports

60-62 Burchill St.

Loganholme

4129 QLD

Australia

Phone: 07 3451 1300

- · Further information obtainable from: msds@motorex.com
- · Emergency telephone number:

In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

2 Hazard(s) Identification

· Classification of the substance or mixture

H225 Highly flammable liquid and vapour. Flam. Lig. 2

Serious eye damage/irritation - Category 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- · Label elements
- GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms







GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

· Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking. P210

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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P331 Do NOT induce vomiting.

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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
EC number: 920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; STOT SE 3, H336	≥70-≤90%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥20-≤25%
· Regulation (EC) No 648/200	04 on detergents / Labelling for contents	
aliphatic hydrocarbons		≥30%
. Additional information: For	the wording of the listed hazard phrases refer to section 16	3

Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Emergency Action Code / HazChem-Code •3YE
- · Protective equipment: No special measures required.

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6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see section 7.

· Ingredien	ts with limit values that require monitoring at the w	vorkplace:
67-63-0 p	ropan-2-ol	
	rt-term value: 1230 mg/m³, 500 ppm g-term value: 983 mg/m³, 400 ppm	
·DNELs		
Hydrocar	bons, C7-C9, n-alkanes, isoalkanes, cyclics	
Oral	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	773 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	2,035 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	608 mg/m3 (consumer)
67-63-0 p	ropan-2-ol	
Oral	DNEL/general population/Systemic effects/Long-term	26 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	888 mg/kg/24h (worker)

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	DNEL/general population/Systemic effec	ts/Long-term	319 mg/kg/24h (consumer)
Inhalative	halative DNEL / Workers / Systemic effects / Loi		500 mg/m3 (worker)
	DNEL/general population/Systemic effec	ts/Long-term	89 mg/m3 (consumer)
· PNECs			
67-63-0 pi	ropan-2-ol		
Oral PNE	C / Predators / Secondary poisoning	160 mg/kg (predators))	food (secondary poisoning
PNE	C / Aquatic organisms / Freshwater	140.9 mg/l (a	aquatic organisms)
PNE	PNEC / Aquatic organisms / Marine water		aquatic organisms)
	PNEC/Aquatic org/intermittent 14 releases(freshwater)		aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatmen plant/STP		aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)		aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)		aquatic organisms)
PNE	C / Terrestrial organism / Soil	28 mg/kg (te	rrestrial organisms)

- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



· Body protection: Protective work clothing



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9 Physical and Chemical Properties

· General Information

· Appearance:

Form: Fluid
Colour: Colourless
Odour: Solvent-like
Odour threshold: Not determined.
pH-value: Not determined.

· Change in condition

· Melting point/freezing point: Undetermined.

· Initial boiling point and boiling range: 82 °C (DIN EN ISO 3405)

· Flash point: <2 °C

Flammability (solid, gas):
Auto-ignition temperature:
Decomposition temperature:
Highly flammable.
310 °C (DIN 51794)
Not determined.

• Explosive properties: Product is not explosive. However, formation of explosive

air/vapour mixtures are possible.

· Explosion limits:

• Lower: 0.9 Vol %
• Upper: 12 Vol %

Vapour pressure: Not determined.

• **Density at 20 °C:** 0.74 g/cm³ (ASTM D 4052)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

Solubility in / Miscibility with

• water: Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic: Not determined.Kinematic: Not determined.

• Other information No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values relevant for classification:		
Hydrocal	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
Oral	LD50	8 ml/kg (rat)	
Dermal	LD50	4 ml/kg (rat)	
	LD50	2,800-3,100 mg/kg (rat)	

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Inhalative		23.3 mg/l (rat)
	NOAEC	5.8-24.3 mg/l (rat)
67-63-0 pi	ropan-2-ol	
Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	16.4 ml/kg (rabbit)
	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50 / 6h	10,000 ppm (rat)
	NOAEC	5,000 ppm (rat)
	NOEC	500-5,000 ppm (rat)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard May be fatal if swallowed and enters airways.

12 Ecological Information

Toxicity

· Aquatic	toxicity:
	arbons, C7-C9, n-alkanes, isoalkanes, cyclics
EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	3-10 mg/l/96h (fish)
LL50	10-30 mg/l/72h (fish)
LL50	10-30 mg/l/48h (fish)
LL50	30-100 mg/l/24h (fish)
LL0	3 mg/l/96h (fish)
EL50	13 mg/l/96h (algae / cyanobacteria)
EL50	4.6-10 mg/l/48h (aquatic invertebrates)
	10-30 mg/l/48h (algae / cyanobacteria)
EL50	10-22 mg/l/24h (aquatic invertebrates)
	10-30 mg/l/24h (algae / cyanobacteria)
EL50	10-30 mg/l/72h (algae / cyanobacteria)
EL0	4.6 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
NOELR	0.574 mg/l/28d (fish)
NOELR	1 mg/l/21d (aquatic invertebrates)
NOELR	6.3 mg/l/96h (algae / cyanobacteria)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)
67-63-0	propan-2-ol
LC50	9.64-10 mg/l/96h (fish)
LC50	10,000 mg/l/24h (aquatic invertebrates)
EC50	10,000 mg/l/24h (aquatic invertebrates)
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- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:

· Bioaccumulative potential		
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
Biodegradability	98 % (28d) (Biodegradability) (OECD 301 F)	
67-63-0 propan-2-ol		
Partition coefficient	0.05 [] (log Kow) (Bioaccumulation)	
Biodegradability	>70 % (28d) (Biodegradability) (EU Method C.5)	

- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

UN-Number	111111000
ADG, IMDG, IATA	UN1993
UN proper shipping name	
ADĠ	1993 FLAMMABLE LIQUID, N.O.S (Hydrocarbons, C7-C9, n-alkanes, isoalkane cyclics, propan-2-ol), ENVIRONMENTALL HAZARDOUS, special provision 640D
IMDG	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C C9, n-alkanes, isoalkanes, cyclics, propan-2-o MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C. C9, n-alkanes, isoalkanes, cyclics, propan-2-ol)

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· Transport hazard class(es)	
· ADG	
Y	
	3 (F1) Flammable liquids. 3
·IMDG	
	3 Flammable liquids.
· Label 	<i>3</i>
·IATA	
	3 Flammable liquids.
	3
· Packing group · ADG, IMDG, IATA	II .
	Product contains environmentally hazardou substances: Hydrocarbons, C7-C9, n-alkane isoalkanes, cyclics
	Symbol (fish and tree) Symbol (fish and tree)
· · · · · · · · · · · · · · · · · · ·	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	
	F-E, <u>S-E</u>
g,	<u>B</u>
Transport in bulk according to Annex II of	Not applicable
	Not applicable.
· Transport/Additional information:	
· ADG · Limited quantities (LQ)	1L
	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 n
	2 D/E
·IMDG	
	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 n
	UN 1993 FLAMMABLE LIQUID, N.O.S

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ISOALKANES, CYCLICS, PROPAN-2-OL), 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Industrial Chemicals

67-63-0 propan-2-ol

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · Chemical safety assessment: A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

- purity requirement
- Relevant phrases

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- · Department issuing SDS: Abteilung Produktsicherheit
- · Contact:
- · Abbreviations and acronyms:

Flam. Liq. 2: Flammable liquids - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

· * Data compared to the previous version altered.

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