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#### **MEC-ELEC CLEAN**

## **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier Product name:** MEC-ELEC CLEAN **Article number:** F100005

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses
Main use category: Professional use.
Industrial/Professional use spec.: For professional use only.
Use of the substance/mixture: Hydrocarbon-based electrical-mechanical cleaner with NSF-K2 approval.

**Uses advised against** No additional information available.

**Company:** 

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

MULTITASK INDUSTRIES KARNEMELKSTRAAT 12 9060 ZELZATE / BELGIUM TEL : +32 (0)9 282 43 61 FAX : +32 (0)9 337 04 96 HOMEPAGE: www.multitaskindustries.be EMAIL: info@multitaskindustries.be

Information department: Technical information: info@multitaskindustries.be

1.4 Emergency telephone number: Poison control centre (Brussels): +32 (0)70 245 245.

#### 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture<br/>Classification according to Regulation (EC) No. 1272/2008 [CLP]Aerosol, Category 1H222; H229Skin corrosion/irritation, Category 2H315Serious eye damage/eye irritation, Category 2H319Specific target organ toxicity – Single exposure, Category 3, NarcosisH336Hazardous to the aquatic environment – Chronic Hazard, Category 2H411

Full text of H statements: see section 16.

Adverse physicochemical, human health and environmental effects: No additional information available.



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#### 2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:



Signal word: Danger.

Hazardous ingredients: Hydrocarbons, C6, isoalkanes, <5% n-hexane, n-hexane, Hydrocarbons, C7, nalkanes, isoalkanes, cyclics, propan-2-ol; isopropyl alcohol; isopropanol

#### Hazard statements:

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautional	ry statements:
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection, protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of soap, water.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding $50^{\circ}$ C/122°F.

#### 2.3 Other hazards

No additional information available.

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1 Substances**

Not applicable.



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#### **3.2 Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-2-ol, isopropyl alcohol, isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	30 - 60	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics	CAS-No.: 64742-49-0 EC-No.: 927-510-4 REACH-no: 01-2119475515-33	30 - 60	Not determined.
Hydrocarbons, C6, isoalkanes, <5% n- hexane	CAS-No.: 64742-49-0 EC-No.: 931-254-9 REACH-no: 01-2119484651-34	15 - 30	Not determined.
METHYLAL	CAS-No.: 109-87-5 EC-No.: 203-714-2 REACH-no: 01-2119664781-31	5 - 10	Flam. Liq. 2, H225
CARBON DIOXIDE	CAS-No.: 124-38-9 EC-No.: 204-696-9 REACH-no: Exempt	1 – 5	Press. Gas (Comp.), H280
n-hexane	CAS-No.: 110-54-3 EC-No.: 203-777-6 EC Index-No.: 601-037-00-0	1-5	Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
cyclohexane	CAS-No.: 110-82-7 EC-No.: 203-806-2 EC Index-No.: 601-017-00-1	0.1-1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
n-hexane	CAS-Nr.: 110-54-3	(5≤C≤100) STOT RE 2, H373	
	EG-Nr.: 203-777-6		
the second second	EG Index-Nr.: 601-037-00-0		

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case. Full text of H- and EUH-statements: see section 16.

#### **4. FIRST AID MEASURES**

#### 4.1 Description of first aid measures

**First-aid measures general:** Get medical advice/attention if you feel unwell. **First-aid measures after inhalation:** Remove person to fresh air and keep comfortable for breathing.



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**First aid-measures after skin contact:** Wash with plenty of water. Take off contaminated clothing. **First-aid measures after 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. **First-aid measures after ingestion:** Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Get medical advice/attention.

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

**Symptoms/effects:** Not expected to present a significant hazard under anticipated conditions of normal use. **Symptoms/effects after inhalation:** High concentration of vapours may induce: headache, nausea, dizziness.

**Symptoms/effects after skin contact:** Repeated exposure may cause skin dryness or cracking. **Symptoms/effects after eye contact:** Causes eye irritation.

**Symptoms/effects after ingestion:** May cause a light irritation of the linings of the mouth, throat and gastrointestinal tract.

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

Treat symptomatically.

#### **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide. Dry powder. Foam.

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

**Fire hazard:** Extremely flammable aerosol. **Explosion hazard:** Explosion risk in case of fire.

#### **5.3 Advice for fire fighters**

Firefighting instructions: Use water spray or fog for cooling exposed containers.

#### 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures General measures:** Remove ignition sources.

For non-emergency personnel Emergency procedures: Evacuate unnecessary personnel.

#### For emergency responders

Protective equipment: Use personal protective equipment as required.

**6.2** Environmental precautions

Avoid release to the environment.



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

For containment: Collect spillage.

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

#### 6.4 Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Additional hazards when processed: Do not pierce or burn, even after use. Precautions for safe handling: Do not spray on an open flame or other ignition source. Hygiene measures: Do not eat, drink or smoke when using this product.

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

**Technical measures:** Does not require any specific or particular technical measures. **Storage conditions:** Keep away from ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Incompatible products: Oxidizing agent. Strong acids. Strong bases. Incompatible materials: Direct sunlight. Heat sources. Sources of ignition. Special rules on packaging: Keep only in original container.

7.3 Specific end use(s)

No additional information available.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **8.1 Control parameters**

National occupational exposure and biological limit values:

Carbon dioxide (124-38-9)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Carbon dioxide	
IOEL TWA	9000 mg/m <sup>3</sup>	
IOEL TWA [ppm]	5000 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	

n-Hexane (110-54-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	n-Hexane	
IOEL TWA	72 mg/m <sup>3</sup>	
IOEL TWA [ppm]	20 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	



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Cyclohexane (110-82-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Cyclohexane	
IOEL TWA	700 mg/m <sup>3</sup>	
IOEL TWA [ppm]	200 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	

Recommended monitoring procedures: No additional information available. Air contaminants formed: No additional information available. DNEL and PNEC: No additional information available.

Control banding: No additional information available.

8.2 Exposure controls

Appropriate engineering controls: No additional information available. Personal protection equipment

Personal protective equipment symbol(s):



Eye and face protection Eye protection: Safety glasses. EN 166. Skin protection Skin and body protection: Not required for normal conditions of use. Hand protection: Chemical resistant gloves (according to European standard EN 374 or equivalent). Nitrile rubber gloves. Other skin protection Materials for protective clothing: Not required for normal conditions of use.

**Respiratory protection:** Not required for normal conditions of use **Thermal hazards:** No additional information available. **Environmental exposure controls:** No additional information available.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Physical state:	Liquid.	
Appearance	Aerosol.	
Colour:	Colourless.	
Odour:	Characteristic.	
Odour threshold:	No data available.	
рН:	No data available.	
Relative evaporation rate (butyl acetate=1):	No data available.	
Melting point:	No data available.	
Freezing point:	No data available.	

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No data available.

Miscible with water.

No data available.

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- Boiling point: Flash point: Auto-ignition temperature: Decomposition temperature: Flammability (solid, gas): Vapour pressure: Relative vapour density at 20°C: Relative density: Solubility: Partition coefficient n-octanol/water (Log Pow): Viscosity, kinematic: Viscosity, dynamic: Explosive properties: Oxidising properties: Explosive limits:
- 9.2 Other information

No additional information available.

#### **10. STABILITY AND REACTIVITY**

#### **10.1 Reactivity**

Pressurised container: May burst if heated.

#### **10.2** Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

**10.4 Conditions to avoid** Direct sunlight. Heat. Open flame.

**10.5 Incompatible materials** Strong oxidisers. Strong acids.

**10.6 Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **11. TOXICOLOGICAL INFORMATION**

#### **11.1 Information on toxicological effects Acute toxicity (oral):** Not classified. **Acute toxicity (dermal):** Not classified.

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Acute toxicity (inhalation): Not classified. Skin corrosion/irritation: Causes skin irritation. Serious eye damage/irritation: Causes serious eye irritation. Respiratory or skin sensitization: Not classified. Germ cell mutagenicity: Not classified. Carcinogenicity: Not classified. Reproductive toxicity: Not classified. **STOT-single exposure:** May cause drowsiness or dizziness. Propan-2-ol, isopropyl alcohol, isopropanol: May cause drowsiness or dizziness. Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics: May cause drowsiness or dizziness. Hydrocarbons, C6, isoalkanes, <5% n-hexane: May cause drowsiness or dizziness. *n-Hexane:* May cause drowsiness or dizziness. Cyclohexane: May cause drowsiness or dizziness. STOT-repeated exposure: Not classified. *n-Hexane:* May cause damage to organs through prolonged or repeated exposure. Aspiration hazard: Not classified. Vaporizer: Aerosol. Not able to form a pool: Yes.

#### **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Hazardous to the aquatic environment, short term (acute): Not classified

Hazardous to the aquatic environment, long term (chronic): Toxic to aquatic life with long lasting effects.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
LC50 – Fish [1]	9640 mg/l	
EC50 - Other aquatic organisms [1]	13299 mg/l waterflea	
EC50 - Other aquatic organisms [2]	> 1000 mg/l	

#### 12.2 Persistence and degradability

No additional information available.

#### **12.3 Bioaccumulative potential**

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
Partition coefficient n-octanol/water (Log Pow)	0.05	

#### 12.4 Mobility in soil

No additional information available.

#### 12.5 Results of PBT and vPvB assessment

No additional information available.

#### **12.6 Other adverse effects**

No additional information available.



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#### **13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods Product/Packaging disposal recommendations: Do not pierce or burn, even after use.

#### **14. TRANSPORT INFORMATION**

**14.1 UN number ADR:** UN1950 **IMDG:** UN1950 **IATA:** UN1950

14.2 UN proper shipping name Proper Shipping Name (ADR): AEROSOLS Proper Shipping Name (IMDG): AEROSOLS Proper Shipping Name (IATA): Aerosols, flammable Transport document description (ADR): UN 1950 AEROSOLS, 2.1, (D) Transport document description (IMDG): UN 1950 AEROSOLS, 2.1 Transport document description (IATA): UN 1950 AEROSOLS, 2.1

**14.3 Transport hazard class(es)** <u>ADR</u> Transport hazard class(es): 2.1 Danger labels: 2.1

IMDG Transport hazard class(es): 2.1 Danger labels: 2.1

IATA Transport hazard class(es): 2.1 Danger labels : 2.1

14.1 Packing groupADR: Not applicable.IMDG: Not applicable.IATA: Not applicable.

#### 14.5 Environmental hazards

**Dangerous for the environment:** Yes (Environmentally hazardous substances derogation applies (quantity of liquids  $\leq 5$  litres or net mass of solids  $\leq 5$  kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.).

**Marine pollutant:** Yes (IMDG 5.2.1.6.1 derogation applies (quantity of liquids  $\leq$  5 litres or net mass of solids  $\leq$  5 kg)).

Other information: No supplementary information available.

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#### **14.6 Special precautions for user Overland transport**

Classification code: 5F Special provisions: 190, 327, 344, 625 Limited quantities: 1L Excepted quantities: E0 Packing instructions: P207, LP200 Special packing provisions: PP87, RR6, L2 Mixed packing provisions: MP9 Transport category: 2 Special provisions for carriage - Packages: V14 Special provisions for carriage - Loading, unloading and handling: CV9, CV12 Special provisions for carriage - Operation: S2 Tunnel restriction code: D

#### Transport by sea

Special provisions: 63, 190, 277, 327, 344, 381, 959 Limited quantities: SP277 Excepted quantities: E0 Packing instructions: P207, LP200 Special packing provisions: PP87, L2 EmS-No. (Fire): F-D EmS-No. (Spillage): S-U Stowage category: None. Stowage and handling: SW1, SW22 Segregation: SG69

#### Air transport

PCA Excepted quantities: E0 PCA Limited quantities: Y203 PCA limited quantity max net quantity: 30kgG PCA packing instructions: 203 PCA max net quantity: 75kg CAO packing instructions: 203 CAO max net quantity: 150kg Special provisions: A145, A167, A802 ERG code: 10L

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code** IBC Code: Not applicable.

#### **15. REGULATORY INFORMATION**

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

Contains no REACH substances with Annex XVII restrictions.

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Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### 15.2 Chemical safety assessment

No additional information available.

#### **16. OTHER INFORMATION**

#### Full text of H- and EUH-statements:

- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Press. Gas (Comp.)	Gases under pressure: Compressed gas.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aerosol 1	H222; H229	On basis of test data.
Skin Irrit. 2	H315	Calculation method.
Eye Irrit. 2	H319	Calculation method.
STOT SE 3	H336	Calculation method.
Aquatic Chronic 2	H411	Calculation method.



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#### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ATE: Acute Toxicity Estimate. BCF: Bioconcentration factor. CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. DMEL: Derived Minimal Effect Level. DNEL: Derived-No Effect Level. DPD: Dangerous Preparations Directive 1999/45/EC. DSD: Dangerous Substances Directive 67/548/EEC. EC50: Median effective concentration. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. LC50: Median lethal concentration. LD50: Median lethal dose. LOAEL: Lowest Observed Adverse Effect Level. NOAEC: No-Observed Adverse Effect Concentration. NOAEL: No-Observed Adverse Effect Level. NOEC: No-Observed Effect Concentration. OECD: Organisation for Economic Co-operation and Development. PBT: Persistent Bioaccumulative Toxic. PNEC: Predicted No-Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. SDS: Safety Data Sheet. STP: Sewage treatment plant. TLM: Median Tolerance Limit. vPvB: Very Persistent and Very Bioaccumulative.

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