



according to Regulation (EC) No 1907/2006

Tuner

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

1.1. Product identifier

Tuner

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

Use of the substance/mixture

Elekronikspray/Electronic Spray

Uses advised against

Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Company name: ITW LLC & Co. KG
Street: Mühlackerstrasse 149
Place: D-75417 Mühlacker
Telephone: ++49(0)7041-96340

e-mail: info@itwcp.de Internet: www.itwcp.de

Responsible Department: Produktsicherheit Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00

Swiss Toxicological Information Centre - Téléphone : +41 44 251 51 51 (in

Telefax: ++49(0)7041-963429

Switzerland dial 145)

United Kingdom: National Poisons Information Service - Phone number:

8448920111

Österreich: Vergiftungsinformationszentrale Vienna - Telefon-Nummer: +43 1

406 43 43

Schweiz: Tox Info Suisse - Telefon-Nummer: +41 44 251 51 51 Italia: Centro Antiveleni, Roma - Numero di telefono: +39 06 305 4343 España: Instituto Nacional de Toxicología - Teléfono: +34 91 562 04 20

1.4. Emergency telephone

number:

Deutschland: ++49(0)7041-96340

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

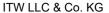
2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Isopropanol, Hydrocarbons, C6, isoalkanes, <5% n-hexane

Signal word: Danger





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Pictograms:







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.

Precautionary statements

P211 Do not spray on an open flame or other ignition source.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P251 Do not pierce or burn, even after use. P210 Keep away from heat. No Smoking.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P273 Avoid release to the environment. P102 Keep out of reach of children.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification				
	Hydrocarbons, C6, isoalkanes, <5% n-hexane				
	931-254-9		01-2119484651-34		
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411				
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			10-25%	
	200-661-7	603-117-00-0			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336				
124-38-9	Carbondioxide				
	204-696-9				
	Compressed gas; H280				

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).



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After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

If swallowed, immediately drink: Water.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Foam. Extinguishing powder.

Unsuitable extinguishing media

Water with tenside additive. Water.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

6.3. Methods and material for containment and cleaning up

Ventilate affected area.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

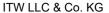
Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.





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Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
124-38-9	Carbon dioxide	5000	9150		TWA (8 h)	WEL
		15000	27400		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

8.2. Exposure controls





Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

DIN EN 374 Tested protective gloves are to be worn: NBR (Nitrile rubber) For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. NBR (Nitrile rubber)

Skin protection

Protective clothing:

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
Colour: colourless
Odour: characteristic

Changes in the physical state

Initial boiling point and boiling range:

Flash point:

< 0 °C

Lower explosion limits:

1,2 vol. %

Upper explosion limits:

7 vol. %

Ignition temperature:

300 °C



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Vapour pressure: 227 hPa

(at 20 °C)

Vapour pressure: 719 hPa

(at 50 °C)

Density (at 20 °C): 0,68 g/cm³
Solvent content: 90%

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C6, isoalkanes, <5% n-hexane				
	oral	LD50 >1000 mg/kg	Fisch 1		

Irritation and corrosivity

Vapours may cause drowsiness and dizziness. After skin contact: irritant.

SECTION 12: Ecological information

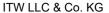
12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d] Species	Source	Method
	Hydrocarbons, C6, isoalkanes, <5% n-hexane				
	Acute algae toxicity	ErC50 >1000 mg/l	72 h Alge		
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h Daphnia pulex (water flea)		

Further information

Do not allow to enter into surface water or drains.





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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers (including halons) containing hazardous

substances; hazardous waste

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately

collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):2Hazard label:2.1



Classification code: 5F

Special Provisions: 190 327 625

Limited quantity: 1 L
Transport category: 2
Tunnel restriction code: D

Other applicable information (land transport)

E0

Inland waterways transport (ADN)

14.1. UN number:UN195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es): 2
Hazard label: 2.1



Classification code: 5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L

Other applicable information (inland waterways transport)

E0

Marine transport (IMDG)

14.1. UN number: UN1950



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14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es): 2
14.4. Packing group: -

Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959

Limited quantity: See SP277 EmS: F-D, S-U

Other applicable information (marine transport)

F٥

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950

14.2. UN proper shipping name: AEROSOLS, flammable

14.3. Transport hazard class(es):2.1Hazard label:2.1



Special Provisions: A145 A167 A803

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger:203IATA-max. quantity - Passenger:75 kgIATA-packing instructions - Cargo:203IATA-max. quantity - Cargo:150 kg

Other applicable information (air transport)

E0 : Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Hydrocarbons

SECTION 15: Regulatory information

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

EU regulatory information

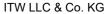
Restrictions on use (REACH, annex XVII):

Entry 28: Hydrocarbons, C6, isoalkanes, <5% n-hexane 2004/42/EC (VOC): 75 % (510 g/l)

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

SECTION 16: Other information





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Relevant H and EUH statements (num	ber and full text)	

Relevant H and EUH statements (number and full text)			
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.		
H411	Toxic to aquatic life with long lasting effects.		

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)