

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 (REACH)

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier:**
MR724 – MediaRange Spray Duster, flammable, 400ml
- 1.2. Relevant identified uses of the mixture and uses advised against:**
For cleaning computer peripherals and components.
For consumer use.
Uses advised against: The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet:**
Information about the distributor/importer:
MediaRange GmbH
Zum Quellenpark 29,
65812 Bad Soden am Taunus
Germany
Tel.: +49 (0) 6196 523 8180
- 1.3.1. Responsible person: Scott Krisztinkovics
E-mail: scott@mediarange.de
- 1.4. Emergency telephone number:** +49 (0) 6196 – 5238186, Monday – Friday 10:00 - 16:00, (DE/EN)

SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the mixture:**
Classification according to Regulation (EC) No 1272/2008 (CLP):
Aerosol 1, Hazard Category 1 – H222; H229
Full text of all classifications and hazard statements is given in the section 16.

Hazard statements:
H222 – Extremely flammable aerosol.
H229 – Pressurised container: May burst if heated.

- 2.2. Label elements:**



Hazard statements:
H222 – Extremely flammable aerosol.
H229 – Pressurised container: May burst if heated.

Precautionary statements:
P102 – Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.
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.

P271 – Use only outdoors or in a well-ventilated area.

P403 – Store in a well-ventilated place.

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

2.3. Other hazards:

In case of inadequate ventilation and/or through use, formation of explosive/highly flammable mixtures possible. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Butane* Index number: 601-004-00-0	106-97-8	203-448-7	-	70-80	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
Propane Index number: 601-003-00-5	74-98-6	200-827-9	-	20-30	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280

*: Substance with a workplace exposure limit.

For the full text of hazard statements, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General information: If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

INGESTION:

Measures:

- Not a likely route of exposure.

INHALATION:

Measures:

- Terminate the exposure immediately; move the affected person to fresh air.
- Protect the person against growing cold.
- Provide medical treatment if irritation, dyspnoea or other symptoms persist.

SKIN CONTACT:

Measures:

- Remove contaminated clothes.
- Wash the affected area with plenty of water, lukewarm if possible.

EYE CONTACT:

Measures:

- Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.
- Rinsing should continue at least for 10 minutes.
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4.2. Most important symptoms and effects, both acute and delayed:

Ingestion: No symptoms and effects are expected.

Inhalation: No symptoms and effects are expected.

Skin contact: No symptoms and effects are expected.

Eye contact: May cause irritation.

- 4.3. **Indication of any immediate medical attention and special treatment needed:**
No special treatment needed; treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

- 5.1. **Extinguishing media:**
Suitable extinguishing media:
Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.
Unsuitable extinguishing media:
Full water jet.
- 5.2. **Special hazards arising from the substance or mixture:**
Extremely flammable aerosol.
Pressurised container: May burst if heated.
In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.
- 5.3. **Advice for firefighters:**
Wear full protective clothing and self-contained breathing apparatus.
Cool the fire affected containers with water spray.
Do not allow run-off of contaminated fire extinguishing agent to enter drains or surface and ground water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. **Personal precautions, protective equipment and emergency procedures:**
- 6.1.1. **For non-emergency personnel:**
Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.
- 6.1.2. **For emergency responders:**
Provide sufficient ventilation.
Extremely flammable aerosol. Pressurised container: May burst if heated.
Remove all ignition sources.
Use personal protective equipment for work.
Follow the instructions in the Sections 7 and 8.
- 6.2. **Environmental precautions:**
Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.
- 6.3. **Methods and material for containment and cleaning up:**
Ventilate the area.
In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies.
After removal of the product, wash the contaminated site with plenty of water.
- 6.4. **Reference to other sections:**
For further and detailed information see Sections 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1. **Precautions for safe handling:**
Observe conventional hygiene precautions.
Observe the pertinent regulations on industrial safety and basic hygiene rules.
- Technical measures:**
Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits.
Use personal protective equipment as per Section 8.
- Precautions against fire and explosion:**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
The product should be used only in the areas where it is not in contact with open fire and other ignition sources.
Use non-sparking tools.
Use of antistatic clothes and footwear is recommended.
Protect against direct sunlight.
Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage condition:

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Incompatible materials: See Section 10.5

Packaging material: No special prescriptions.

7.3. Specific end use(s):

No specific instructions available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Occupational exposure limit values (OEL) (EH40/2005 Workplace exposure limits (Third edition, published 2018)

Butane (only applies if Butane contains more than 0.1% of buta-1,3-diene) (CAS: 106-97-8):

WEL 8 hours: 1450 mg/m³; 600 ppm

WEL Short term (15min): 1810 mg/m³; 750 ppm

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no notes
Marine water	no data	no notes
Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	no data	no notes
Intermittent release	no data	no notes
Secondary poisoning	no data	no notes
Soil	no data	no notes

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

8.2.2. Individual protection measures, such as personal protective equipment:

Do not eat, drink and smoke during work.

Wash hands thoroughly with water and soap after work and before breaks for a meal and rest.

The information regarding personal protective equipment is only for informative purposes. A complete risk assessment is required before the use of the product for the determination of the appropriate personal protective equipment, taking local circumstances into account.

1. **Eye/face protection:** Not required.

2. **Skin protection:**

a. **Hand protection:** Use appropriate protective gloves that is resistant to the product (EN 374).

b. **Other:** Contaminated skin should be washed thoroughly.

3. **Respiratory protection:** Half-mask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

4. **Thermal hazards:** No thermal hazards known.

8.2.3. Environmental exposure controls:

Observe usual measures for protection of the environment, see Section 6.2.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Parameter	Value / Test method / Remarks
1. Physical state	aerosol spray; gas at 20 °C
2. Colour	colourless
3. Odour, odour threshold	odourless
4. Melting point/freezing point	no data*
5. Boiling point or initial boiling point and boiling range	no data*
6. Flammability	extremely flammable aerosol
7. Lower and upper explosion limit	no data*
8. Flash point	no data*
9. Auto-ignition temperature	no data*
10. Decomposition temperature	no data*
11. pH	gas
12. Kinematic viscosity	no data*
13. Solubility in water in other solvents	no data*
14. Partition coefficient n-octanol/water (log value)	no data*
15. Vapour pressure	no data*
16. Density and/or relative density	no data*
17. Relative vapour density	Spray
18. Particle characteristics	no data*

9.2. Other information:

9.2.1. Information with regard to physical hazard classes:

No further data available or not applicable for the product.

9.2.2. Other safety characteristics:

No other characteristics available.

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

No reactivity known.

10.2. Chemical stability:

Stable at normal temperature and under general work conditions.

10.3. Possibility of hazardous reactions:

No hazardous reactions known.

10.4. Conditions to avoid:

The product is stable and no degradation occurs under normal use.

Protect against flames, sparks, overheating and against frost.

Pressurised container: May burst if heated.

10.5. Incompatible materials:

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products:

Hazardous decomposition products are not developed under normal uses.

Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:**
Acute toxicity: Based on available data, the classification criteria are not met.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
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: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.1.1. Summaries of the information derived from the test conducted:**
No data available.
- 11.1.2. Relevant toxicological properties:**
Aspiration hazard: The inhalation of solvent vapours above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.
- 11.1.3. Information on likely routes of exposure:**
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:**
Ingestion: No symptoms and effects are expected.
Inhalation: No symptoms and effects are expected.
Skin contact: No symptoms and effects are expected.
Eye contact: May cause irritation.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:**
No data available.
- 11.1.6. Interactive effects:**
No data available.
- 11.1.7. Absence of specific data:**
No information.
- 11.2. Information on other hazards:**
Endocrine disrupting properties:
Endocrine disrupting property: Based on available data, it does not contain endocrine disruptors.
Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:**
The mixture is not classified as hazardous for the environment.
- 12.2. Persistence and degradability:**
No data available.
- 12.3. Bioaccumulative potential:**
No data available.
- 12.4. Mobility in soil:**
No data available.
- 12.5. Results of PBT and vPvB assessment:**
Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.
- 12.6. Endocrine disrupting properties:**
Endocrine disrupting property: Based on available data, it does not contain endocrine disruptors.
- 12.7. Other adverse effects:**
No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods:**
Disposal according to the local regulations.

13.1.1. Information regarding the disposal of the product:

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations.
Proceed in accordance with valid regulations on waste disposal.

Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity.

Do not empty unused product in drainage systems.

Do not dispose of together with household waste.

Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

List of Waste Code:

16 05 04* *gases in pressure containers (including halons) containing hazardous substances*

*: Hazardous waste.

13.1.2. Information regarding the disposal of the packaging:

Dispose of in accordance with applicable regulations.

Perfectly cleaned containers can be submitted for recycling.

List of Waste Code:

15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

*: Hazardous waste.

13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:

No data available.

13.1.4. Sewage disposal:

No data available.

13.1.5. Special precautions for any recommended waste treatment:

No data available.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2 Gases

14.4. Packing group:

No packing group.

14.5. Environmental hazards:

No relevant information available.

14.6. Special precautions for user:

Refer to Sections 4-8.

Additional information:

Classification code: 5F

Label: 2.1



Air transport (ICAO/IATA):

Packaging instructions, passenger aircraft: 203

Packaging instructions, cargo aircraft: 203

Sea transport (IMDG):

EmS: F-D, S-U

MFAG: 620

14.7. Maritime transport in bulk according to IMO instruments:

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

COMMISSION DIRECTIVE (EU) No 2013/10 of 19 March 2013 amending Council Directive (EEC) No 75/324 on the approximation of the laws of the Member States relating to aerosol dispensers

15.2. **Chemical safety assessment:** Not available.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: Revised in sections 2, 3, 8 and 16.

Literature references / data sources:

Safety data sheet issued by the manufacturer (29. 11. 2021, version 10.0/EN).

Methods used for the classification according to Regulation (EC) No 1272/2008:

Classification	Method
Aerosols, Hazard Category 1 – H222; H229	Calculation method

Relevant hazard statements (code and full text) of Sections 2 and 3:

H220 – Extremely flammable gas.

H222 – Extremely flammable aerosol.

H229 – Pressurised container: May burst if heated.

H280 – Contains gas under pressure; may explode if heated.

Other important information about human health protection:

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Training advice:

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Full text of the abbreviations in the safety data sheet:

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

AOX: Adsorbable organic halides.

BCF: Bioconcentration factor.

BOD: Biological Oxygen Demand.

CAS number: Chemical Abstract Service number.

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

CMR effects: Carcinogenic, mutagenic, reprotoxic effects.

COD: Chemical Oxygen Demand.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

DNEL: Derived-No-Effect-Level.

ECHA: European Chemical Agency.

EC: European Community.

EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).
EEC: European Economic Community.
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norm.
EU: European Union.
EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
IMSBC: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC₅₀: Lethal concentration resulting in 50 % mortality.
LD₅₀: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.
QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.