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## VODAK SMOKE DETECTOR TESTER MV-8

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

**VODAK SMOKE DETECTOR TESTER MV-8** 

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

Used for: Test spray for smoke detectors. Smoke simulation.

1.3 Details of the supplier of the safety data sheet:

1.3.1 Company specification

VODAK s.r.o.

Luční 703

460 01 Raspenava, Czech Republic

info@vodak-spray.com Tel: +420 730 545 695 www.vodak-spray.com

1.3.2 A person qualified and responsible for safety data sheet

e-mail: info@vodak-spray.com

1.4 Emergency telephone number:

Czech Republic: +420 602 414 051 or Poison centre Na Bojišti 1, 128 08 Praha2, Phone nonstop 224 919 293, 224 915 402, or (only during the day 224 914 575)

Information relevant in the country of distribution to be added.

## SECTION 2 HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

## 2.1.1 Classification according to EU Regulation no. 1272/2008

Aerosol 1 H222, H229 STOT SE 3 H336

Aquatic Chronic 2, H411

Asp. Tox. 1 H304 (see below)

The full text of "H-phrases" is stated in Section 16 of this Safety Data Sheet.

Note: When placed on the market in aerosol containers, the substances or mixtures classified in accordance with the criteria of EU Regulation 1272/2008 based on inhalation hazard as Asp. Tox. 1 H304 need not be labelled for this hazard.

2.1.2 The most serious adverse physic-chemical effects

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Build-up of explosive mixtures possible without sufficient ventilation.

2.1.3 The most serious adverse effects on human health

May cause drowsiness or dizziness.

2.1.4 The most serious adverse effects on the environment

Toxic to aquatic life with long lasting effects.

2.2 Label elements

# 2.2.1 The label elements in accordance with Regulation no. (EC) no. 1272/2008



DANGER

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C/122°F.

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

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P102 Keep out of reach of children.

P501 Dispose of container as hazardous waste.



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EUH066 Repeated exposure may cause skin dryness or cracking.

Content: Hydrocarbons, C6, isoalkanes, <5% n-hexane

#### 2.3 Other hazards

The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII of EU Regulation 1907/2006.

#### 2.4 Further information

Not to be used in a range of ignition sources.

Further information necessary to be added to the product label complying with other regulations, see Section 15.

#### \*SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

Hazardous substances:	Index No. CAS No. EINECS. Registration No.	Content (% ww)	Classification acc. (EC) No. 1272/2008
Hydrocarbons, C6, isoalkanes, <5% n-hexane	931-254-9 - 01-2119484651-34	5-96	Flam. Liq. 2 H225 Asp. Tox. 1 H304 STOT SE 3 H336 Aquatic Chronic 2 H411 EUH066
Mineral oils * Distillates (petroleum), heavy hydrocracked	- 265-077-7 64741-76-0 01-2119486951-26	< 5	Substance with exposure limit - see section 8
Isobutane	601-004-00-40 200-857-2 75-28-5	60-80	Flam. Gas 1 H220 Press. Gas H280
Propane	601-003-00-5 200-827-9 74-98-6	15-25	Flam. Gas 1 H220 Press. Gas H280

<sup>\*</sup> Base oils contain less than 3% DMSO extract according to IP 346.

Note to the claimed concentration range: The indicated values cover the concentrations of substances in the liquid and in the aerosol (the concentration of propellant components corresponds to the content of these substances in the aerosol). The classification is based on calculations of the upper values given concentration range.

Full text of H-phrases is described in Section 16 of this Safety Data Sheet

# SECTION 4 FIRST AID MEASURES

## 4.1 Description of first aid measures

## 4.1.1 General information

In the case of health problems or if in doubt, seek medical advice and provide information from this Safety Data Sheet. In case of unconsciousness place patient in recovery position. Do not give an unconscious person anything by mouth. Take off contaminated clothing and shoes immediately

# 4.1.2 In case of inhalation:

Stop exposure to vapours and relocate patient from area of exposure to the fresh air, ensure the patient is calm and rests, avoiding physical exertion. Avoid exposure to cold. In case of breathing difficulties seek medical help immediately.

# 4.1.3 In case of eye contact:

Remove contact lenses if used. Immediately rinse eyes with clean and lukewarm running water for at least 15 min. Eyes should be wide open especially to ensure that you rinse under the eyes lids; seek medical advice if the pain or eye redness persists.

## 4.1.4 In case of contact with skin:

Remove contaminated clothing, rinse contaminated skin with soap under running water.

## 4.1.5 In case of ingestion:



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Not anticipated. An aerosol spray. Calm the victim and keep him/her warm. Rinse their mouth with water but only if the person affected is conscious and does not suffer with spasms. Do not induce vomiting. Seek medical advice immediately and show product label or this Safety Data Sheet.

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

Not known

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment

#### SECTION 5 FIREFIGHTING MEASURES

## 5.1 Extinguishing media

## 5.1.1 Suitable extinguishing media:

Water mist, carbon dioxide (CO<sub>2</sub>), multipurpose powders, foam

## **5.1.2** Unsuitable extinguishing media:

Full water jet.

# 5.2 Special hazards arising from the substance or mixture:

In the case of a large fire or in confined or poorly ventilated areas, wear suitable protective equipment – respiratory/breathing apparatus.

## 5.3 Advice for fire fighters:

Water can be used only for cooling products (containers) near the fire. Fire residues and contaminated fire extinguishing liquid must be disposed off according to local rules and regulations

## \*SECTION 6 ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

## **6.1.1** For non - emergency personnel

Do not inhale any gases/vapours/aerosols. Ensure effective ventilation. Due to the potential exposure to hazardous agents, wear suitable protective equipment (resistant gloves, protective glasses and clothing). Eliminate all sources of ignition. Do not eat, drink or smoke while working.

Do not allow entry to unprotected persons.

Vapours are heavier than air. Do not allow vapours to drain.

See Section 8 for more information

# **6.1.2** For emergency responders

See section 8

# **6.2** Environmental precautions

Avoid draining into sewage/surface water/ground water. Seal underground spaces, there is a risk of explosion if the substance leaks into sewers or waste water. Risk of formation of explosive mixtures above the water level. Use suitable absorbent materials.

# 6.3 Methods and material for containment and cleaning up

Cover the contaminated area with damp soil or sand and allow at least for 30 minutes for this to take effect. Then remove mechanically.

Contaminated material to be handed to the authorized person for collection of hazardous waste. The decontaminated area must be washed with plenty of water or use suitable cleanser.

#### 6.4 Reference to other sections

See sections 7, 8 and 13

## SECTION 7 HANDLING AND STORAGE

# 7.1 Precautions for safe handling

See Section 8 for personal protection. Ensure effective ventilation. Do not inhale any gases/vapours/aerosols. Avoid contact with skin, eyes and clothing.

Due to the potential exposure to hazardous agents, wear suitable protective equipment (resistant gloves, protective glasses and clothing). Do not smoke. Switch off all electrical devices that can create sparks (Sections 7 and 8). Implement precautionary measures to prevent the accumulation of an electrostatic charge. Work in accordance with an instruction manual - special protective measures are not necessary.

## 7.1.1 Preventive measures to protect the environment:

Avoid draining into sewage/surface water/ground water.

## 7.1.2 Preventive measures against fire and explosion



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Handle the product only in a cool, ventilated room (to avoid the risk of explosion).

Handle the product away from sources of ignition (open flames and sparks) and heat (hot surfaces). Do not smoke.

Use explosion-proof electrical equipment. Take precautionary measures against static discharge. Do not use compressed air for filling, emptying or handling.

#### 7.1.3 Specific requirements or rules relating to the substance or mixture:

Store in a cool dry place. Keep away from heat sources

## 7.1.4 General hygienic measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not dry hands with rags that have been contaminated with product. Do not use abrasives, solvents or fuels. Wash hands before breaks and at the end of workday.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry and well ventilated areas. Keep away from open flames, hot surfaces and sources of ignition. Store below +50 ° C. Protect from direct sunlight.

Design equipment to prevent product leakage. Use explosion-proof electrical equipment.

Store containers properly labelled.

Do not store together with oxidizing agents and strong acids.

## 7.3 Specific end use(s)

No data available

#### \*SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Mineral oils (aerosol):

Czech Republic: 5 mg/m³ (long term value); 10 mg/m³ (short term value 15 min.)

## 8.1.1 Values DNEL and PNEC

Mixture values are not available.

Distillates (petroleum), heavy hydrocracked

## **Employee DNEL:**

inhalation long-term local effect =  $5.4 \text{ mg} / \text{m}^3 \text{ (aerosol)}$ 

#### **Consumer DNEL:**

long-term local effect =  $1.2 \text{ mg} / \text{m}^3$  (aerosol)

oral, long-term systemic effect: 0.74 mg / kg body weight / day

#### **PNEC**

oral predators: 9.33 mg/kg food

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

## **Employee DNEL:**

long-term systemic effect:

13964 mg / kg body weight / day (dermal)

5306 mg / m3 / 8h (by inhalation)

#### **Consumer DNEL:**

long-term systemic effect:

1377 mg / kg body weight / day (dermal)

1131 mg / m3 / 24h (by inhalation)

1301 mg / kg body weight / day (oral)

PNEC is not meaningful for petroleum substances

## 8.2 Exposure controls

# **8.2.1** Appropriate engineering controls

Use in well ventilated areas.

# 8.2.2 Individual protection measures, such as personal protective equipment

Use of personal protective equipment must be in accordance with the Directive 89/686/EEC.

## 8.2.2.1 A General hygienic and protective measures

Use the usual preventive measures when handling chemicals.

While working with the mixture do not eat, drink or smoke.

Wash your hands before break and after work.

Avoid contact with food, drink and feed.

Remove contaminated clothing immediately.



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Do not breathe vapour or mist.

Avoid contact with eyes and skin.

## 8.2.2.2 Respiratory protection

In case of exceeding exposure limits use protective mask with filter counter to organic vapours and steams - filter for organic vapours, type AX (if there is a risk of vapour). In case of vapours and sprays - use a combined gas filter (organic gases and dust, type A/P2).

## 8.2.2.3 Hand protection

Protective gloves. Material must be resistant to degreasing solvents.

The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. In case of reutilization, clean gloves before taking off and store in well-aired place.

Repeated or prolonged contact:

Nitrile rubber Material thickness: > 0.45 mm Break through time: > 480 min PVA, Fluoridated Rubber Material Thickness: > 0.45 mm Break through time: > 480 min

In case of contact through spraying:

Nitrile rubber, neoprene Material thickness: > 0.3 mm Break through time: > 60 min

## 8.2.2.4 Eye protection

Tight safety glasses or face shield.

# 8.2.2.5 Protecting skin (the whole body)

Protective work clothing. Contaminated clothing must be washed again before reuse.

## 8.2.3 Environmental exposure controls

Not necessary when used as required, avoid entering into surface waterways and sewers.

## \*SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid in aerosol containers	
Colour	colourless	
Odour	Not specified	
Odour Threshold	Not specified	
Melting point/freezing point	Not assessed at the foam	
Boiling point/boiling range	51-56°C (Hydrocarbons, C6, isoalkanes, <5% n-hexane) -4010°c (propellant)	
Flammability	extremely flammable aerosol	
Lower and upper explosion limit	11,1-13 vol % (propellant)	
Flash point	<-35 ° C (C6 hydrocarbons) ASTM D 93 -4010°C (propellant) mineral oils: > 210 ° C	
Auto-ignition temperature	> 230°C (hydrocarbons) ASTM E 659 mineral oils:> 350 ° C	
Decomposition temperature	Not specified	
pН	Not applicable	
Kinematic viscosity	Not specified	
Solubility In water	Not specified	
Partition coefficient: n-octanol/water	Not specified	
Vapour pressure	< 0,7 MPa (at 20 °C)	
Density and/or relative density	0,67 g/cm <sup>3</sup> (at 20 °C) – without the propulsion gas 0,56 g/cm <sup>3</sup> (at 20 °C) – included propulsion gas	
Relative vapour density	Not specified	
Evaporation rate	Not specified	
Explosive properties	Not specified	
Oxidising properties	Not specified	

9.2 Other information

Organic solvents content

Ca 1 kg/kg of product



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#### **VODAK SMOKE DETECTOR TESTER MV-8**

## SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

The product under standard conditions of use is stable and does not degrade.

10.2 Chemical stability

The product under standard conditions of use is stable and does not degrade.

Do not overheat to avoid thermal decomposition

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents and strong acids.

10.4 Conditions to avoid

Temperatures above the flash point, open flames, static electricity

10.5 Incompatible materials

Strong acids, strong oxidizing agents,

10.6 Hazardous decomposition products

Under standard usage does not occur.

Incomplete combustion creates smoke and toxic gases (eg. CO<sub>2</sub>, CO), various hydrocarbons, aldehydes and soot.

Inhalation is hazardous.

## \*SECTION 11 TOXICOLOGICAL INFORMATION

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **11.1.1 Mixture**

For mixture (content of cartridge) are not relevant toxicological data available. The mixture was evaluated by

calculation methods

Acute toxicity:

Skin corrosion/ irritation:

Based on available data the classification criteria are not met
Based on available data the classification criteria are not met
Based on available data the classification criteria are not met
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Based on available data the classification criteria are not met
Based on available data the classification criteria are not met

Reproductive toxicity STOT-single exposure:

STOT-repeated exposure:

Based on available data the classification criteria are not met

May cause drowsiness or dizziness.

Based on available data the classification criteria are not met

Aspiration hazard: LIQUID: May be fatal if swallowed and enters airways.

11.1.2 Mixture components

**Acute toxicity:** 

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

 Oral
 LD0
 > 16750 mg / kg body weight (rat-OECD 401)

 Dermal
 LD50 (4h)
 > 3350 mg / kg body weight (rabbit - OECD 402)

 Inhalation
 LC50 (4h)
 = 259354 mg / m3 (vapors) (rat - OECD 403)

Distillates (petroleum), heavy hydrocracked

Acute toxicity

oral (rat) LD50> 5,000 mg / kg (OECD TG 401) dermal (rabbit) LD50> 2,000 mg / kg (OECD TG 402) inhalation (rat) LC50> 5,000 mg / m3 (OECD TG 403)

Germ cell mutagenicity: PAH content is <3% (IP 346). In vitro and in vivo genetic toxicity tests did not show germ cell mutagenicity.

Carcinogenicity: PAH content is <3% (IP 346). It is not carcinogenic by dermal or inhalation exposure.

## 11.2 Information on other hazards

We have no information that the mixture contains substances identified as endocrine disruptors

# \*SECTION 12 ECOLOGICAL INFORMATION

## 12.1 Toxicity

For mixture (content of cartridge) are not relevant toxicological data available.

**Mixture components** 

Acute toxicity of the mixture to aquatic organisms

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



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ErL50 (72h) = 13.6 mg / 1 (Pseudokirchneriella subcapitata - QSAR Petrotox)

NOELR (72h) = 3.0 mg / 1 Pseudokirchneriella subcapitata - growth rate - QSAR Petrotox)

EL50 (48h) = 31.9 mg / 1 (Daphnia magna - QSAR Petrotox)

LL50 (96h) = 18.3 mg / 1 (Oncorhynchus mykiss - QSAR Petrotox) Chronic toxicity of the components of the mixture to aquatic organisms

Distillates (petroleum), heavy hydrocracked

fish LL50 (96 h)> 100 mg / 1, NOEL  $\ge 100 \text{ mg} / 1$  (OECD 203)

algae NOEL (72 h)  $\geq$  100 mg / 1 (OECD 201)

invertebrates EL50 (48 h)> 10,000 mg / l,

 $NOEL \ge 1000 \text{ mg} / 1 \text{ (OECD 202)}$ 

## Chronic toxicity of the components of the mixture to aquatic organisms

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

Toxicity to daphnia and other invertebrates NOELR (21d) = 7.14 mg/l (Daphnia magna - QSAR Petrotox)

Toxicity to fish NOELR (28d) = 4.09 mg / 1 (Oncorhynchus mykiss - QSAR Petrotox)

Distillates (petroleum), heavy hydrocracked

invertebrates NOEL (21 days) 10 mg/l,

fish NOEL (21 days) 10 mg / 1

#### 12.2 Persistence and degradability

For mixture (content of cartridge) are not relevant toxicological data available.

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

> 98% easily degradable in 28 days (OECD 301 F)

Distillates (petroleum), heavy hydrocracked

It is not readily biodegradable

## 12.3 Bioaccumulative potential

For mixture (content of cartridge) are not relevant toxicological data available.

Hydrocarbons, C6, isoalkanes, <5% n-hexane logPow 3.6

Distillates (petroleum), heavy hydrocracked

Bioaccumulative potential is not reported. Based on the logPow value of similar products, a very low can be expected

# 12.4 Mobility in soil

Not available

The substance Hydrocarbons, C6, isoalkanes, <5% n-hexane is UVCB. Standard tests for these monitored properties are not suitable.

## 12.5 Results of PBT and vPvB assessments

Not available

# 12.6 Endocrine disrupting properties

We have no information that the mixture contains substances identified as endocrine disruptors

#### 12.7 Other adverse effects

Not available

## SECTION 13 DISPOSAL CONSIDIRATION

## 13.1 Waste treatment methods

All Waste must be handled in accordance with national regulations.

Do not mix with household waste. This is a hazardous waste.

## 13.1.1 The potential risk in waste disposal.

No significant risk at disposal, but empty containers/cans may contain unreacted components.

## 13.1.2 Disposal methods of the mixture

Uncured material to be treated as hazardous waste.

Aerosol cans with the contents remains must be disposed of as hazardous waste, eg. in a hazardous waste incinerator

#### Recommended waste classification

## Liquid:

14 06 03\* Other solvents and solvent mixtures

# Packaging:

Pressure aerosol container:

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

16 05 05\* gases in pressure containers other than those mentioned in 16 05 04



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## Contaminated material, such as cleaning cloths, sorbets, working clothes:

15 02 02\* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

2.1

## 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
14.4	Packing group	-

14.5 Environmental hazards Marine polutant
 14.6 Special precautions for users not applicable
 14.7 Maritime transport in bulk according to IMO instruments not applicable

14.8 Land transport ADR/RID

Safety label

Class/classification code 2 (5F) Gases
Packing group: -

Description: UN 1950 Aerosols

14.9 Maritime transport IMDG:

Class/classification code 2.1
Packing group: Safety Label 2.1

Description: UN 1950 Aerosols

Ems No.: F-D,S-U
Marine pollutant yes

14.10 Air Transport ICAO/IATA-DGR

Class/classification code 2.1

Packing group:

Description: UN 1950 Aerosols, flammable

## SECTION 15 REGULATORY INFORMATION

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

Regulation (EC) No1907/2006 of the European Parliament and of the Council of 18. December 2006 on Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

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 (CLP)

The European Agreement Concerning the International carriage of dangerous goods by road (Agreement ADR) NOTE: The stated regulatory information only indicate basic regulations described in this safety data sheet. Please note the possible existence of additional legislation complementing these regulations. Refer to all applicable national, international and local regulations and directives.

#### 15.2 Chemical safety assessment

Information from the substances registration dossiers are incorporated into the MSDS body

#### SECTION 16 OTHER INFORMATION

# 16.1 Guidelines for training

Inform workers with recommended use and mandatory protective equipment, first aid and prohibited handling of the mixture

# 16.2 Information on sources of data used in the compilation of the Safety Data Sheet

Data of the manufacturer and vendor as stated in the Safety Data Sheets of the individual components of the mixture

This Safety Data Sheet should be used in conjunction with the Material Data Sheet. The SDS does not replace the MDS. Information herein presented is based on our knowledge of the product at the time of issue and are presented in good faith.

The user is alerted to the potential danger as resulting from the use of the product for purposes other than for which it is intended. This does not exempt the user from the understanding and implementation of all laws and regulations regulating their business. The implementation of all regulations required for handling the product is



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he sole responsibility of the user. These regulatory directives are intended to help the user in meeting their duties related to the handling of dangerous products.

This information is not exhaustive. This does not exempt the user from their duty to make sure there are no other laws and regulations than those referred to herein, and relating to the use and storage of the product, this remaining solely the user's responsibility.

## 16.3 Full text of H phrases according to Regulation EU 1272/2008

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H280 Extremely flammable gas.

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.

H411 Toxic to aquatic life with long lasting effects.

## 16.4 Changes made to the previous version of the safety data sheet

changes made to the sections marked \*

