

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

### 1.1 Product identifier

**Trade name/designation** E4500 HEAT TOOL CARTRIDGE P445

**Product-no.:** 391-90101

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

No data available

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

#### Importer/Only Representative

HellermannTyton GmbH

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Dept. responsible for information: Safety and Environmental Management

[www.HellermannTyton.de](http://www.HellermannTyton.de)

### 1.4 Emergency telephone number

National Poison Information Centre +44 - (0) - 844892011(for medical professional only), (In England and Wales)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

#### Physical hazards

Flam. Gas 1

#### hazard statements for physical hazards

H220 Extremely flammable gas.

#### Physical hazards

Press. Gas

#### hazard statements for physical hazards

H280 Contains gas under pressure; may explode if heated.

### 2.2 Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

#### Hazard pictograms



GHS02

#### Signal word

Danger

#### Hazard statements

#### Hazard statements for physical hazards:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

## Precautionary statements

### General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

### Prevention:

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

### Response:

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 Eliminate all ignition sources if safe to do so.

### Storage:

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

## 2.3 Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### remark

Full text of R-, H- and EUH-phrases: see section 16.

Petroleum Gases, liquefied, sweetened (Nota K, -R45, R46, <0.1% 1,3-butadiene)

### 3.1/3.2 Substances/Mixtures

#### Hazardous ingredients

Petroleum gases, liquefied, sweetened; Petroleum gas 70 - 80 %

CAS 68476-86-8

EC 270-705-8

INDEX 649-203-00-1

Flam. Gas 1, H220 / Muta. 1B, H340 / Carc. 1A, H350

propene 20 - 30 %

CAS 115-07-1

EC 204-062-1

INDEX 601-011-00-9

Flam. Gas 1, H220

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### Following skin contact

Generally the product does not irritate the skin.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

If symptoms persist consult a doctor.

### 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 (CO<sub>2</sub>)

Extinguishing powder

Water spray

alcohol resistant foam

#### Unsuitable extinguishing media

High power water jet

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

No data available

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

##### Personal precautions

Use personal protection equipment. Keep unprotected people away and stay on the upwind side. Provide adequate ventilation.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

No data available

### 6.4 Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advices on general occupational hygiene

Wash hands before breaks and after work.

#### Protective measures

##### Advices on safe handling

Use only in well-ventilated areas. Handle and open container with care. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. Always close containers tightly after the removal of product.

##### Measures to prevent fire

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

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

#### Requirements for storage rooms and vessels

Container should not be closed gas-tight. Keep container tightly closed.

#### Further information on storage conditions

Protect against:

Heat

UV-radiation/sunlight

Keep in a cool, well-ventilated place.

### 7.3 Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### remark

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Exposure controls

#### Personal protection equipment

#### Eye/face protection

##### Suitable eye protection:

Eye glasses

##### Body protection:

##### Suitable protective clothing:

Full protection suit

#### Respiratory protection

Respiratory protection necessary at:  
insufficient ventilation

##### Suitable respiratory protection apparatus:

Self-contained respirator (breathing apparatus) (DIN EN 133)

Filtering device (full mask or mouthpiece) with filter:

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

##### Physical state

liquefied gas

##### Colour

colourless

##### Odour

characteristic

	parameter	Method - source - remark
	pH	not determined
	Melting point/freezing point	not determined
	Initial boiling point and boiling range	not determined
	Flash point (°C)	-70 °C
	Evaporation rate	not determined
	flammability	not determined
	Upper explosion limit	12 Vol-%
	lower explosion limit	0,6 Vol-%
	Vapour pressure	10,5 hPa Temperature 20 °C

parameter	Method - source - remark
Vapour density	not determined
Density 0,56 g/cm <sup>3</sup>	
Fat solubility (g/L)	not determined
Water solubility (g/L)	partially miscible
Soluble (g/L) in	not determined
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not determined

## 9.2 Other safety information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

In case of warming:

Danger of explosion

### 10.5 Incompatible materials

#### Materials to avoid

Acid, concentrated

Alkali metals

### 10.6 Hazardous decomposition products

Carbon dioxide

Carbon monoxide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Additional ecotoxicological information

Phrase ID -1 Übersetzung (ISO-Code: en) nicht gefunden!!

#### Additional information

Discharge into the environment must be avoided.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Appropriate disposal / Product

Waste disposal according to official state regulations.

#### Appropriate disposal / Package

Waste disposal according to official state regulations.

**Waste code product** 160504

**hazardous waste** Yes.

#### Waste name

gases in pressure containers (including halons) containing dangerous substances

## SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	2037	2037	2037
14.2 Proper Shipping Name	RECEPTACLES, SMALL, CONTAINING GAS	RECEPTACLES, SMALL, CONTAINING GAS	Receptacles, small, containing gas
14.3 Class(es)	2	2.1	2.1
14.4 Packing group			
14.5 ENVIRONMENTALLY HAZARDOUS	No	No	No
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicable	not applicable

### Additional information - Land transport (ADR/RID)

**Hazard label(s)** 2.1

**Limited quantity (LQ)** 1 L

**tunnel restriction code** D

**transport category** 2

### Additional information - Air transport (ICAO-TI / IATA-DGR)

**Limited quantity (LQ)** 1

### Special precautions for user

EMS Nummer: F-D, S-U

## SECTION 15: Regulatory information

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

## 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### Indication of changes

\* Data changed compared with the previous version

\*1.4

### Additional information

This data is based upon our actual knowledge, especially on the declaration of our suppliers and applies to our products, as they are delivered from HellermannTyton GmbH today and to the determined use. HellermannTyton GmbH takes neither an explicit nor a silent guarantee or liability in connection with the use of the information in this document for conditions of use of the product, HellermannTyton cannot influence.

### Relevant R-, H- and EUH-phrases (Number and full text)

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

R12 Extremely flammable.