

# SAFETY DATA SHEET

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

**Product identifier** 

Trade name or designation

of the mixture

KaVo Spray 2112

Registration number

Not available.

**Product registration number Product use** professional use

**Product code** 0,411,9630; 0,411,9640 Date of first issue 09-November-2011

Version number 10

**Revision date** 09-November-2011

Supersedes date

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

Identified uses Not available. Uses advised against None known. Details of the supplier of the safety data sheet

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number

## Section 2: Hazards identification

#### Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification F+:R12

The full text for all R-phrases is displayed in section 16.

**Hazard summary** 

Physical hazards Extremely flammable.

**Health hazards** Not classified for health hazards.

Not classified for hazards to the environment. **Environmental hazards** 

Specific hazards Extremely flammable. Do not breathe dust/fume/gas/mist/vapors/spray.

Main symptoms Not available.

Label elements

## Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains: Butane (< 0,1 % Butadiene), Isobutane (< 0,1% Butadiene), PROPANE



Extremely flammable

R12 Extremely flammable. R-phrases

Material name: KaVo Spray 2112 SDS UK S-phrases S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe gas/fumes/vapour/spray.

S60 This material and its container must be disposed of as hazardous waste.

## Section 3: Composition/information on ingredients

#### **Mixture**

**General information** 

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Butane (< 0,1 % Butadiene)			106-97-8 203-448-7	-	601-004-00-0	#
Classification:	F+;R12		200			
Isobutane (< 0,1% Butadiene)			75-28-5 200-857-2	-	601-004-00-0	
Classification:	F+;R12					
PROPANE			74-98-6 200-827-9	-	601-003-00-5	
Classification:	F+;R12					

<sup>#:</sup> This substance has workplace exposure limit(s).

Composition comments The full text for all R-phrases is displayed in Section 16.

#### Section 4: First aid measures

## Description of first aid measures

Inhalation Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if

symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if irritation

develops and persists.

Most important symptoms and effects, both acute and delayed

Not available.

Indication of any immediate

Not available.

medical attention and special

treatment needed

#### Section 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

media

media

Do not use water jet.

## Advice for firefighters

Special protective equipment for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special firefighting procedures

Containers close to fire should be removed immediately or cooled with water. Use extinguishing

measures that are appropriate to local circumstances and the surrounding environment.

## Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas. Ventilate closed

spaces before entering them.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Contact local authorities in case of spillage to

drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

Material name: KaVo Spray 2112 0,411,9630; 0,411,9640 Version No.: 1.0 Revision date: 09-November-2011 Print date: 09-November-2011

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Methods and material for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

#### Section 7: Handling and storage

Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. Do not spray on a naked flame or any other incandescent material Do not smoke while using or until sprayed surface is thoroughly dry. May be ignited by open flame. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Refrigeration recommended. Store in a well-ventilated place. Keep out of the reach of children.

## Section 8: Exposure controls/personal protection

#### **Control parameters**

#### **Exposure limit values**

#### **UK. EH40 Workplace Exposure Limits (WELs)**

Components	Туре	Value		
Butane (< 0,1 % Butadiene) (106-97-8)	STEL	1810 mg/m3		
,	TWA	750 ppm 1450 mg/m3 600 ppm		
Biological limit values	No biological exposure limits noted for the ingredient(s).			
Recommended monitoring procedures	Follow standard monitoring procedures.			
DNEL	Not available.			
PNEC	Not available.			
Exposure controls				
ppropriate engineering Good general ventilation (typically 10 air changes per hour) should be used. Ventilation ra				

controls

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide adequate general and local exhaust ventilation.

## on measures, such as nersonal protective equipment

idividual protection measure	s, such as personal protective equipment			
General information	Not available.			
Eye/face protection	Wear safety glasses with side shields.			
Skin protection				
- Hand protection	Wear protective gloves. Nitrile rubber. Latex gloves.			
- Other	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.			
Respiratory protection	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release,			

exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Thermal hazards Not available.

Hygiene measures When using do not smoke. Handle in accordance with good industrial hygiene and safety

practices.

**Environmental exposure** 

controls

Environmental manager must be informed of all major releases.

Material name: KaVo Spray 2112 0,411,9630; 0,411,9640 Version No.: 1.0 Revision date: 09-November-2011 Print date: 09-November-2011

## Section 9: Physical and chemical properties

Information on basic physical and chemical properties

**Physical state** Liquid. Aerosol **Form** Colour Light yellow. Odour Odourless. **Odour threshold** Not available. Not applicable. pН Melting point/freezing

point

Not available.

**Boiling point, initial boiling** 

point, and boiling range

Not available.

-80 °C (-112 °F) Flash point **Auto-ignition temperature** Not applicable. Flammability (solid, gas) Not available. 1.8 %

Flammability limit - lower

(%)

Flammability limit - upper

11.2 %

(%)

Not applicable. Oxidising properties **Explosive properties** Not applicable. **Explosive limit** Not applicable. Vapour pressure 4.2 bar @ 20 °C Not applicable. Vapour density **Evaporation rate** Not applicable. > 350 °C (> 662 °F) Ignition temperature

Information on basic physical and chemical properties Relative density Not available.

0.853 g/ml @ 20 °C **Density** 

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Not available.

Decomposition temperature

Not available. **Viscosity** 84.46 % VOC (Weight %) Percent volatile Not available.

Other information No relevant additional information available.

#### Section 10: Stability and reactivity

**Chemical stability** Risk of ignition.

Conditions to avoid Heat, flames and sparks. Aerosol containers are unstable at temperatures above 50°C.

Incompatible materials Do not mix with other chemicals.

Hazardous decomposition

No dangerous reaction known under conditions of normal use.

products

### **Section 11: Toxicological information**

Information on likely routes of exposure

Ingestion Not available.

Inhalation Vapours may cause drowsiness and dizziness.

Skin contact Not available. Not available. Eye contact **Symptoms** Not available.

Information on toxicological effects

Material name: KaVo Spray 2112

**Test results** Components

Isobutane (< 0,1% Butadiene) (75-28-5)

Acute Inhalation LC50 Mouse: 52 mg/l 1 Hours

Skin corrosion/irritation

Prolonged or repeated contact may cause drying, cracking, or irritation.

Serious eye damage/eye

irritation

May irritate eyes.

Respiratory sensitisation Not available. Skin sensitisation Not available. Not available. Germ cell mutagenicity Not available. Carcinogenicity Reproductive toxicity Not available. Not available. Specific target organ

toxicity - single exposure

Specific target organ toxicity - repeated

exposure

Not available.

**Aspiration hazard** Mixture versus substance

Not available. Not available.

information

Not available.

Other information **Section 12: Ecological information** 

**Ecotoxicity** There are no data on the ecotoxicity of this product.

Persistence and degradability

No data is available on the degradability of this product.

Not available. Bioaccumulative potential Not available. Mobility **Environmental fate -**Not available.

**Partition coefficient** 

Mobility in soil Not available. Results of PBT and Not available. vPvB assessment

Other adverse effects Not available.

### **Section 13: Disposal considerations**

Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the

ground.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Do not re-use empty containers.

**EU** waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Contents under pressure. Do not puncture, incinerate or crush. This material and its container

must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant authorised under the Environmental Protection Act 1990. Do not discharge into drains, water

courses or onto the ground. Dispose in accordance with all applicable regulations.

#### **Section 14: Transport information**

**ADR** 

UN1950 **UN number** 

Aerosols, flammable **UN proper shipping name** 

Transport hazard class(es) 2.1 Subsidiary class(es) **Environmental hazards** No **Tunnel restriction code** Labels required 2.1

Special precautions for user

Not available.

**IATA** 

UN1950 **UN** number

Proper shipping name Aerosols, flammable

2.1 **Hazard class** 

Subsidiary hazard class 6.1(PGIII)
Labels required 2.1
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

**IMDG** 

UN number 1950

Proper shipping name Aerosols, flammable

Hazard class 2

#### **Section 15: Regulatory information**

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

#### **EU** regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Commission Decision 2000/479/EC on the implementation of a European pollutant emission register (EPER)

Not listed.

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national

laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

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

Do not pierce or burn, even after use.

Chemical safety assessment No Chemical Safety Assessment has been carried out.

## **Section 16: Other information**

List of abbreviationsNot available.ReferencesNot available.Information on evaluationNot available.

method leading to the classification of mixture

Wording of the R-phrases in

sections 2 and 3

R12 Extremely flammable.

**Revision information** Not available. **Training information** Not available.

**Disclaimer**The information in the sheet was written based on the best knowledge and experience currently

available.

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Material name: KaVo Spray 2112