SAFETY DATA SHEETS

This SDS packet was issued with item:

070373266

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

070398388 273030094



SAFETY DATA SHEET

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

KaVo QUATTROcare plus Spray

1.1. Product identifier

Trade name or designation

of the mixture

REACH Registration -

Number

Product code 1,005,3843-45;1,005,4523/24

Issue date 09-November-2011

Version number 1.0

Revision date 08-January-2013
Supersedes date 09-November-2011
Product use professional use

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

Identified usesNot available.Uses advised againstNone known

1.3. Details of the supplier of the safety data sheet

Company name Kaltenbach & Voigt GmbH

Address Bismarckring 39

D-88400 Biberach

Germany

 Telephone number
 +49 (0) 7351 56-0

 Fax
 +49 (0) 7351 1488

 Contact person
 Peter Fischer

 Telephone number
 +49 (0) 175 30 57725

 e-mail
 peter.fischer@bayer.com

 Emergency telephone
 +49 (0) 7351 56 4000

number

SECTION 2: Hazards identification

2.1. 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.

Environmental hazards Not classified for hazards to the environment.

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

Main symptoms Not available.

2.2. 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

EC number -

EC label



Extremely flammable

Material name: KaVo QUATTROcare plus Spray
1,005,3843-45;1,005,4523/24 Version No.: 1.0 Revision date: 08-January-2013 Issue date: 09-November-2011

R-phrases R12 Extremely flammable.

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.

Authorisation number Not available.

Supplemental label information Not applicable.

2.3. Other hazards Not assigned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name % CAS-No. / EC No. REACH Registration No. INDEX No. Notes

Butane (< 0,1 % Butadiene) 106-97-8 - 601-004-00-0

203-448-7

Classification: DSD: F+;R12

CLP: Flam. Gas 1;H220

Isobutane (< 0,1% Butadiene) 75-28-5 - 601-004-00-0

200-857-2

Classification: DSD: F+;R12

CLP: Flam. Gas 1;H220, Press. Gas;H280

PROPANE 74-98-6 - 601-003-00-5

200-827-9

Classification: DSD: F+;R12

CLP: Flam. Gas 1;H220

#: This substance has workplace exposure limit(s).
PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

SECTION 4: First aid measures

General information Not available.

4.1. 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.

4.2. Most important symptoms

and effects, both acute and

delayed

Not available.

4.3. Indication of anyNot available.

immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Water spray, foam, dry powder or carbon dioxide.

media

Unsuitable extinguishing

Suitable extinguishing

Do not use water jet.

media

Material name: KaVo QUATTROcare plus Spray

SDS UK

5.3. Advice for firefighters

Special protective equipment for firefighters

Special fire fighting procedures

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

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

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

6.1. 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

6.2. 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.

6.3. 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.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. 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.

7.2. Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Contents under pressure. 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.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates 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.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields.

Skin protection

- Hand protection Wear protective gloves. Nitrile rubber. Latex gloves.

Material name: KaVo QUATTROcare plus Spray

1,005,3843-45;1,005,4523/24 Version No.: 1.0 Revision date: 08-January-2013 Issue date: 09-November-2011

- 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

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

range

-80.00 °C (-112.00 °F) Flash point

Evaporation rate Not applicable. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

1.8 %

Flammability limit - upper

11.2 %

(%)

4.2 bar @ 20 °C Vapour pressure Not applicable. Vapour density Relative density Not available. Solubility(ies) slight emulsifiable Not available. Partition coefficient

(n-octanol/water)

> 350 °C (> 662 °F) Ignition temperature

Decomposition temperature Not available. Viscosity Not applicable. **Explosive properties** Not available. **Oxidizing properties** Not available.

9.2. Other information

0.85 g/ml @ 20 °C Density

84.46 % VOC (Weight %)

SECTION 10: Stability and reactivity

10.2. Chemical stability Risk of ignition. 10.3. Possibility of hazardous Not available.

10.4. Conditions to avoid

reactions

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

10.5. Incompatible materials Do not mix with other chemicals.

10.6. Hazardous No dangerous reaction known under conditions of normal use.

decomposition products

SECTION 11: Toxicological information

General information Not available.

Material name: KaVo QUATTROcare plus Spray

1,005,3843-45;1,005,4523/24 Version No.: 1.0 Revision date: 08-January-2013 Issue date: 09-November-2011

Information on likely routes of exposure

Ingestion Not available.

Inhalation Vapours may cause drowsiness and dizziness.

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

11.1. Information on toxicological effects

Components **Test results Species**

Butane (< 0,1 % Butadiene) (106-97-8)

Acute

Inhalation

LC50 Mouse 680 mg/l, 2 Hours Rat 658 mg/l, 4 Hours

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

Acute

Inhalation

LC50 Mouse 52 mg/l, 1 Hours

PROPANE (74-98-6)

Acute

Inhalation

LC50 Rat > 1442.847 mg/l, 15 Minutes

Skin corrosion/irritation Prolonged or repeated contact may cause drying, cracking, or irritation.

Serious eye damage/irritation May irritate eyes. Not available. Respiratory sensitisation Skin sensitisation Not available. Germ cell mutagenicity Not available. Not available. Carcinogenicity Reproductive toxicity Not available.

Specific target organ toxicity -

single exposure

Not available.

Specific target organ toxicity -

repeated exposure

Not available.

Aspiration hazard Not available. Mixture versus substance

information

Not available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity There are no data on the ecotoxicity of this product. 12.2. Persistence and No data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

> **PROPANE** 2.36 Isobutane (< 0,1% Butadiene) 2.76 Butane (< 0,1 % Butadiene) 2.89

Not available. **Bioconcentration factor (BCF)** 12.4. Mobility in soil Not available

12.5. Results of PBT Not a PBT or vPvB substance or mixture.

and vPvB assessment

Not available. 12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. 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 codeThe 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 holding a permit delivered by the competent authorities. Do not discharge into drains, water

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

SECTION 14: Transport information

ADR

14.1. UN number UN1950

14.2. UN proper shipping

Aerosols, flammable

name

14.3. Transport hazard 2.1

class(es)

Subsidiary class(es)

14.4. Packing group Not available.

14.5. Environmental hazards No

Tunnel restriction code Not available.

Labels required 2.1

14.6. Special precautions

Not available.

Aerosols, flammable

for user

IATA

14.1. UN number UN1950

14.2. UN proper shipping

name

14.3. Transport hazard 2.1

class(es)

Subsidiary class(es)6.1(PGIII)14.4. Packing groupNot available.14.5. Environmental hazardsNot available.

Labels required 2.1

ERG Code Not available.

14.6. Special precautions Not available.

for user

IMDG

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard 2

class(es)

Subsidiary class(es)

14.4. Packing group Not available.

14.5. Environmental hazards

Marine pollutant No

Labels required Not available. **14.6. Special precautions** Not available.

for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

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

Not listed.

Material name: KaVo QUATTROcare plus Spray

1,005,3843-45;1,005,4523/24 Version No.: 1.0 Revision date: 08-January-2013 Issue date: 09-November-2011

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

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work PROPANE (CAS 74-98-6)

Directive 94/33/EC on the protection of young people at work

Not regulated.

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.

15.2. 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

Full text of any statements or R-phrases and H-statements under Sections 2 to 15 R12 Extremely flammable.

H220 - Extremely flammable gas.

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

Revision informationNot available.Training informationNot available.

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

available.





according to Regulation (EC) No 1907/2006

QUATTROcare plus Spray AMERICA 2141

Print date: 10.01.2014 Product code: 1.005.3844 Page 1 of 9

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

1.1. Product identifier

QUATTROcare plus Spray AMERICA 2141

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

1.3. Details of the supplier of the safety data sheet

Company name: KaVo Dental GmbH
Street: Bismarckring 39
Place: D-88400 Biberach/Riß

Telephone: +49 (0) 7351 56-0 Telefax: +49 (0) 7351 56-1488

e-mail: info@kavo.com Internet: www.kavo.de

1.4. Emergency telephone + 49 (0) 30 / 30 686 790 (Poison Centre Berlin)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable

R phrases:

Extremely flammable.

2.2. Label elements

Danger symbols: F+ - Extremely flammable



F+ - Extremely flammable

R phrases

12 Extremely flammable.

S phrases

23 Do not breathe Aerosol .

51 Use only in well-ventilated areas.

Special labelling of certain mixtures

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



according to Regulation (EC) No 1907/2006

QUATTROcare plus Spray AMERICA 2141

Print date: 10.01.2014 Product code: 1.005.3844 Page 2 of 9

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
232-455-8	White mineral oil (petroleum)	25 - < 50 %
8042-47-5		
	Asp. Tox. 1; H304	
01-2119487078-27		

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Never give anything by mouth to an unconscious person or a person with cramps. Remove persons to safety.

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Change contaminated clothing.

After contact with eyes

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

After ingestion

Rinse mouth immediately and drink plenty of water.

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Foam. Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

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

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation.



according to Regulation (EC) No 1907/2006

QUATTROcare plus Spray AMERICA 2141

Print date: 10.01.2014 Product code: 1.005.3844 Page 3 of 9

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See chapter 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Dust must be exhausted directly at the point of origin. When using do not eat, drink, smoke, sniff.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours may form explosive mixtures with air.

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.

Advice on storage compatibility

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

Further information on storage conditions

Protect from frost. Protect against direct sunlight.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
8042-47-5	White mineral oil (petroleum)		5		TWA (8 h)	TWA
					STEL (15 min)	TWA
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

Additional advice on limit values

a no restriction

b End of exposure or shift

c in long-term exposure: after several shifts

d prior to next shift

TWA (EC): time-weighted average

U: Urea

8.2. Exposure controls



according to Regulation (EC) No 1907/2006

QUATTROcare plus Spray AMERICA 2141

Print date: 10.01.2014 Product code: 1.005.3844 Page 4 of 9

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min Thickness of the glove material 0.45 mm

Skin protection

No special measures are necessary.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)...

Filtering device with filter or ventilator filtering device of type: AX

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
Colour: slightly yellow
Odour: characteristic

Test method

pH-Value (at 20 °C): not applicable

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

No information available.

No information available.

No information available.

No information available.

Flash point: -80 °C

Lower explosion limits: 1 vol. %

Upper explosion limits: 11 vol. %

Ignition temperature:

Vapour pressure:

No information available.

No information available.

No information available.

Density (at 20 °C): 0,853 g/cm³ DIN 51757

Bulk density:

Water solubility:

No information available.

insoluble

Partition coefficient:

Viscosity / dynamic:

No information available.

No information available.

Viscosity / kinematic:

15,5 mm²/s

Flow time:

Vapour density:

No information available.

No information available.

Evaporation rate:

No information available.

 Revision No: 1,00
 GB - EN
 Revision date: 29.10.2012



according to Regulation (EC) No 1907/2006

QUATTROcare plus Spray AMERICA 2141

Print date: 10.01.2014 Product code: 1.005.3844 Page 5 of 9

Solvent separation test:

Solvent content:

No information available.

No information available.

9.2. Other information

Solid content:

No information available.

density: Data apply to technical substance.

pressure: ca. 4,3 bar (20°C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with: Oxidising agent

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

CAS No	Chemical name						
	Exposure routes	Method	Dose	Species	Source		
8042-47-5	White mineral oil (petroleum)						
	oral	LD50 mg/kg	> 5000	Rat			
	dermal	LD50 mg/kg	> 2000	Rabbit			
	inhalative (4 h) aerosol	LC50	>5000 mg/l	Rat			

Irritation and corrosivity

No information available.

Sensitising effects

No information available.

Severe effects after repeated or prolonged exposure

No information available.

Carcinogenic/mutagenic/toxic effects for reproduction

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.



according to Regulation (EC) No 1907/2006

QUATTROcare plus Spray AMERICA 2141

Print date: 10.01.2014 Product code: 1.005.3844 Page 6 of 9

No indications of human reproductive toxicity exist.

Specific effects in experiment on an animal

No information available.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name							
	Aquatic toxicity	Method	Dose	h	Species	Source		
8042-47-5	White mineral oil (petroleum)							
	Acute fish toxicity	LC50	> 100 mg/l		Brachydanio rerio (zebra-fish)			
	Acute algae toxicity	ErC50	> 100 mg/l	72 h	Desmodesmus subspicatus.			
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna			

12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
8042-47-5	White mineral oil (petroleum)	> 3,5

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.

Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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 dangerous substances Classified as hazardous waste.

Waste disposal number of used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances

Classified as hazardous waste.





according to Regulation (EC) No 1907/2006

QUATTROcare plus Spray AMERICA 2141

Print date: 10.01.2014 Product code: 1.005.3844 Page 7 of 9

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

Water (with cleaning agent). Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

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

14.3. Transport hazard class(es):2Hazard label:2.1Classification code:5F

Special Provisions: 190 327 344 625

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

Other applicable information (land transport)

Limited quantity: E0

Inland waterways transport (ADN)

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

14.3. Transport hazard class(es):2Hazard label:2.1Classification code:5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L

Other applicable information (inland waterways transport)

Limited quantity: E0

Marine transport (IMDG)

14.1. UN number:UN195014.2. 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)

Limited quantity: E0

Air transport (ICAO)

14.1. UN number: UN1950

14.2. UN proper shipping name: AEROSOLS, flammable

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



according to Regulation (EC) No 1907/2006

QUATTROcare plus Spray AMERICA 2141

Print date: 10.01.2014 Product code: 1.005.3844 Page 8 of 9

Special Provisions: A145 A167 A802

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger:

IATA-max. quantity - Passenger:

75 kg
IATA-packing instructions - Cargo:

203
IATA-max. quantity - Cargo:

150 kg

Other applicable information (air transport)

Limited quantity: E0 Passenger-LQ: Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): VOC-CH: 0,197 kg/500ml Dose (59,82 % w/w)

VOC 1999/13/EG: 59,82 % w/w

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds

(VOC-auideline).

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL (UK): Workplace Exposure Limits TWA (EC): Time-Weighted Average

ATE: Acute Toxicity Estimate

STEL (EC) Short Term Exposure Limit

LC50: Lethal Concentration

EC50: half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate

Full text of R phrases referred to under Sections 2 and 3

12 Extremely flammable.

Full text of H statements referred to under Sections 2 and 3

H304 May be fatal if swallowed and enters airways.

Further Information

The above information describes exclusively the safety requirements of the product and is based on





according to Regulation (EC) No 1907/2006

QUATTROcare plus Spray AMERICA 2141

Print date: 10.01.2014 Product code: 1.005.3844 Page 9 of 9

our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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