



## Safety Data Sheet CLASSIC & QUICK SET SPACERS (Blue, Gold, Grey, Red, Silver)

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

#### 1.1. Product identifier

Product name : CLASSIC & QUICK SET SPACERS (Blue, Gold, Grey, Red, Silver)

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

##### Relevant identified uses

Main use category : Professional use

Function or use category : Dental materials.

##### Uses advised against

No additional information available

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

##### Supplier

Kerr Italia S.r.l.  
Via Passanti, 332  
84018 Scafati (SA) - Italy  
T +39-081-850-8311  
[E-mail: safety@kavokerr.com](mailto:safety@kavokerr.com)

##### Manufacturer

Kerr Corporation  
1717 West Collins Avenue  
92867 Orange – CALIFORNIA (U.S.A.)  
T 00-800-41-050-505  
[safety@kavokerr.com](mailto:safety@kavokerr.com)

Contact person : [safety@kavokerr.com](mailto:safety@kavokerr.com) - tel. 00-800-41-050-505 (08.00-17.00)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703) 527-3887

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

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

Flam. Liq. 2 H225

Eye Irrit. 2 H319

STOT SE 3 H335

STOT SE 3 H336

Full text of classification categories and H statements : see section 16

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) : Danger

Hazardous ingredients : n-butyl acetate, butanone, ethyl methyl ketone, pentan-3-one, diethyl ketone

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness

Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P243 - Take precautionary measures against static discharge P261 - Avoid breathing spray, vapours, gas, fume, mist P262 - Do not get in eyes, on skin, or on clothing P280 - Wear eye protection, protective gloves P403+P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/container to ...
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking
Extra phrases	: The product is seen as a medical device and therefore not subject to labelling (EU-regulation 1907/2006, article 2, paragraph 6c).

### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
butanone, ethyl methyl ketone	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3 (REACH-no) 01-2119457290-43-0000	=>30-<60	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1 (REACH-no) 01-2119485493-29	=>0-<30	Flam. Liq. 3, H226 STOT SE 3, H336
pentan-3-one, diethyl ketone	(CAS No) 96-22-0 (EC no) 202-490-3 (EC index no) 606-006-00-5 (REACH-no) 01-2119531111-60	=>0-<30	Flam. Liq. 2, H225 STOT SE 3, H335 STOT SE 3, H336

Full text of H-statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

First-aid measures general	: If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: DO NOT induce vomiting. Get medical attention immediately. Drink plenty of water. If swallowed, rinse mouth with water (only if the person is conscious).

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

Symptoms/injuries after inhalation	: May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact	: Causes serious eye irritation.

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

No specific measures identified.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Foam, carbon dioxide (CO <sub>2</sub> ) and powder.
Unsuitable extinguishing media	: Do not use a heavy water stream.

**5.2. Special hazards arising from the substance or mixture**

Fire hazard : Highly flammable liquid and vapour.  
 Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

**5.3. Advice for firefighters**

Firefighting instructions : Use water spray or fog for cooling exposed containers.  
 Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

General measures : Remove ignition sources. No open flames. No smoking. Use special care to avoid static electric charges. Do not eat, drink or smoke in areas where product is used. Avoid contact with skin and eyes.

**For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

**For emergency responders**

No additional information available

**6.2. Environmental precautions**

Discharging into rivers and drains is forbidden.

**6.3. Methods and material for containment and cleaning up**

For containment : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Methods for cleaning up : Large spills: scoop solid spill into closing containers. Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Precautions for safe handling : Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Always wash hands after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original container. Keep container tightly closed. Store in a dry place. Store in a well-ventilated place. Keep cool.

Incompatible materials : Oxidizing substances.

**7.3. Specific end use(s)**

Consult the supplier for further information.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

<b>n-butyl acetate (123-86-4)</b>		
United Kingdom	Local name	Butyl acetate
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	200 ppm
<b>butanone, ethyl methyl ketone (78-93-3)</b>		
EU	Local name	Butanone
EU	IOELV TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	300 ppm
United Kingdom	Local name	Butan-2-one
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	899 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	300 ppm
United Kingdom	Remark (WEL)	Sk, BMGV

**pentan-3-one, diethyl ketone (96-22-0)**

United Kingdom	Local name	Pentan-3-one
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	716 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	895 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	250 ppm

**8.2. Exposure controls**

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Gloves. Safety glasses.
Hand protection	: Wear suitable gloves. Nitrile rubber gloves. Layer thickness : 0,09mm. Breakthrough time : >480 min. STANDARD EN 374.
Eye protection	: Safety glasses. STANDARD EN 166.
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust. Standard EN 149.



Other information	: Do not eat, drink or smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Colour	: Colourless.
Odour	: kerosene.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 79°C
Flash point	: -4°C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 105 hPa 20°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.9 g/cm <sup>3</sup> 20°C
Solubility	: Material insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: Highly flammable liquid and vapour.
Explosive limits	: 1.2 - 11.5 vol%

**9.2. Other information**

No additional information available

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No polymerization.

**10.4. Conditions to avoid**

No flames, no sparks. Eliminate all sources of ignition. Keep away from heat and direct sunlight.

**10.5. Incompatible materials**

Oxidizing agent.

**10.6. Hazardous decomposition products**

No decomposition if stored normally.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Acute toxicity : Not classified  
Ingestion of large amounts may cause discomfort.

<b>n-butyl acetate (123-86-4)</b>	
LD50 oral rat	10768 mg/kg
LD50 dermal rabbit	> 17600 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	40 mg/l/4h
<b>butanone, ethyl methyl ketone (78-93-3)</b>	
LD50 oral	2000 mg/kg
LD50 dermal rabbit	5000 mg/kg
LC50 inhalation rat (mg/l)	9 mg/l/4h
<b>pentan-3-one, diethyl ketone (96-22-0)</b>	
LD50 oral rat	2140 mg/kg
LD50 dermal rabbit	16000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 29 mg/l/4h

Skin corrosion/irritation : Prolonged or repeated contact may cause skin to become dry or cracked  
 Serious eye damage/irritation : Causes serious eye irritation.  
 Respiratory or skin sensitisation : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 Specific target organ toxicity (single exposure) : May cause respiratory irritation. May cause drowsiness or dizziness.  
 Specific target organ toxicity (repeated exposure) : Not classified  
 Aspiration hazard : Not classified

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

Ecology - general : Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.

<b>n-butyl acetate (123-86-4)</b>	
LC50 fish 1	<= 18 mg/l (96 hours - Pimephales promelas)
EC50 Daphnia 1	10 - 100 mg/l (48 hours - Daphnia magna)
EC50 other aquatic organisms 1	24 mg/l (24 hours - Daphnia magna)
<b>butanone, ethyl methyl ketone (78-93-3)</b>	
LC50 fish 1	400 mg/l (96 hours - Lepomis macrochirus)
EC50 Daphnia 1	> 520 mg/l (48 hours - Daphnia magna)
Threshold limit algae 1	110 mg/l
<b>pentan-3-one, diethyl ketone (96-22-0)</b>	
LC50 fish 1	< 1540 mg/l (96 hours - Pimephales promelas)
LC50 other aquatic organisms 1	> 5000 mg/l IC50, 72 hours -Selenastrum
EC50 Daphnia 1	> 500 mg/l (48 hours - Daphnia magna)

**12.2. Persistence and degradability**

<b>CLASSIC &amp; QUICK SET SPACERS (Blue, Gold, Grey, Red, Silver)</b>	
Persistence and degradability	No data available.

**n-butyl acetate (123-86-4)**

BOD (% of ThOD)	> 0.5 % ThOD BOD5/COD
Biodegradation	98 % (28 days, method: OECD 301B)

**pentan-3-one, diethyl ketone (96-22-0)**

BOD (% of ThOD)	0.58 % ThOD BOD5/COD
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**12.3. Bioaccumulative potential****CLASSIC & QUICK SET SPACERS (Blue, Gold, Grey, Red, Silver)**

Bioaccumulative potential	No data.
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**n-butyl acetate (123-86-4)**

Bioconcentration factor (BCF REACH)	14
Log Pow	1.81

**butanone, ethyl methyl ketone (78-93-3)**

Log Pow	0.61
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**pentan-3-one, diethyl ketone (96-22-0)**

Log Pow	0.99
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**12.4. Mobility in soil****CLASSIC & QUICK SET SPACERS (Blue, Gold, Grey, Red, Silver)**

Ecology - soil	Material insoluble in water.
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**12.5. Results of PBT and vPvB assessment****CLASSIC & QUICK SET SPACERS (Blue, Gold, Grey, Red, Silver)**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**12.6. Other adverse effects**

Other adverse effects : None to our knowledge.

Additional information : No other effects known

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Regional legislation (waste)	: Dispose as hazardous waste.
Waste treatment methods	: Recover the product with absorbent material. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 18 01 06* - chemicals consisting of or containing dangerous substances

**SECTION 14: TRANSPORT INFORMATION**

In accordance with ADR / RID / IMDG / IATA / ADN

**14.1. UN number**

UN-No. (ADR)	: 1263
UN-No. (IMDG)	: 1263
UN-No. (IATA)	: 1263
UN-No. (RID)	: 1263

**14.2. UN proper shipping name**

Proper Shipping Name (ADR)	: PAINT
Proper Shipping Name (IMDG)	: PAINT
Proper Shipping Name (IATA)	: Paint
Proper Shipping Name (RID)	: PAINT
Transport document description (ADR)	: UN 1263 PAINT (n-butyl acetate(123-86-4) ; butanone, ethyl methyl ketone(78-93-3) ; pentan-3-one, diethyl ketone(96-22-0)), 3, II, (D/E)
Transport document description (IMDG)	: UN 1263 PAINT, 3,II

**14.3. Transport hazard class(es)****ADR**

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3

**IMDG**

Transport hazard class(es) (IMDG) : 3  
 Danger labels (IMDG) : 3

**IATA**

Transport hazard class(es) (IATA) : 3  
 Hazard labels (IATA) : 3

**RID**

Transport hazard class(es) (RID) : 3  
 Danger labels (RID) : 3

**14.4. Packing group**

Packing group (ADR) : II  
 Packing group (IMDG) : II  
 Packing group (IATA) : II  
 Packing group (RID) : II

**14.5. Environmental hazards**

Dangerous for the environment : No  
 Marine pollutant : No  
 Other information : No supplementary information available

**14.6. Special precautions for user****- Overland transport**

Classification code (ADR) : F1  
 Special provisions (ADR) : 163, 640C, 650, 367  
 Limited quantities (ADR) : 5I  
 Excepted quantities (ADR) : E2  
 Packing instructions (ADR) : P001  
 Special packing provisions (ADR) : PP1  
 Mixed packing provisions (ADR) : MP19  
 Portable tank and bulk container instructions (ADR) : T4  
 Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28  
 Tank code (ADR) : L1.5BN  
 Vehicle for tank carriage : FL  
 Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S2, S20  
 Hazard identification number (Kemler No.) : 33  
 Orange plates :



Tunnel restriction code (ADR) : D/E  
 EAC code : •3YE

#### - Transport by sea

Special provisions (IMDG) : 163  
 Limited quantities (IMDG) : 5L  
 Excepted quantities (IMDG) : E2  
 Packing instructions (IMDG) : P001  
 Special packing provisions (IMDG) : PP1  
 IBC packing instructions (IMDG) : IBC02  
 Tank instructions (IMDG) : T4  
 Tank special provisions (IMDG) : TP1, TP8, TP28  
 EmS-No. (Fire) : F-E  
 EmS-No. (Spillage) : S-E  
 Stowage category (IMDG) : B  
 Properties and observations (IMDG) : Miscibility with water depends upon the composition.

#### - Air transport

PCA Excepted quantities (IATA) : E2  
 PCA Limited quantities (IATA) : Y341  
 PCA limited quantity max net quantity (IATA) : 1L  
 PCA packing instructions (IATA) : 353  
 PCA max net quantity (IATA) : 5L  
 CAO packing instructions (IATA) : 364  
 CAO max net quantity (IATA) : 60L  
 Special provisions (IATA) : A3, A72, A192  
 ERG code (IATA) : 3L

#### Rail transport

No data available

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

Not applicable

## SECTION 15: REGULATORY INFORMATION

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

#### EU-Regulations

Contains no REACH substances with Annex XVII restrictions  
 Contains no substance on the REACH candidate list  
 Contains no REACH Annex XIV substances

#### National regulations

EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: OTHER INFORMATION

Indication of changes:

Regulatory information.

2.1	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	
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3.2	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	
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Data sources : EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

Date of issue : 15/02/2010

Revision date : 18/09/2015

Supersedes : 20/05/2014

Signature : A. Åsebø Murel

## Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
EUH066	Repeated exposure may cause skin dryness or cracking

*The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.*