SAFETY DATA SHEET
CILBOND 4000 DILUENT

1. Identification

Product identifier

Product name CILBOND 4000 DILUENT

Recommended use of the chemical and restrictions on use

Application Additive for paint.

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier

Kömmerling UK Ltd
217 Walton Summit Road
Bamber Bridge
Preston, Lancashire
PR5 8AQ United Kingdom
+44 (0)1772 322888
+44 (0)1772 315853
sds@cilbond.com

Emergency telephone number

Emergency telephone +44(0)7778 029192

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Flam. Liq. 2 - H225

Health hazards STOT SE 3 - H336

Environmental hazards Not Classified

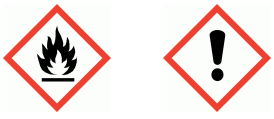
Human health See Section 11 for additional information on health hazards.

Environmental The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful effect on the environment.

Physicochemical The product is highly flammable. Vapors may form explosive mixtures with air. Vapors may be ignited by a spark, a hot surface or an ember.

Label elements

Pictogram



Signal word Danger

CILBOND 4000 DILUENT

Hazard statements

H225 Highly flammable liquid and vapor.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapor/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 Call a poison center/doctor if you feel unwell.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

Contains

butanone

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

butanone **60-100%**

CAS number: 78-93-3

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT SE 3 - H336

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information

Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention.

Ingestion

Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Remove affected person from source of contamination. Rinse mouth thoroughly with water. Get medical attention. Keep affected person away from heat, sparks and flames.

Skin Contact

Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

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Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes and get medical attention. Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Vapors may cause headache, fatigue, dizziness and nausea. Vapours may cause drowsiness and dizziness.

Ingestion May cause stomach pain or vomiting.

Skin contact Prolonged or repeated exposure may cause severe irritation.

Eye contact Causes eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

5.Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc.

Unsuitable extinguishing media Water.

Special hazards arising from the substance or mixture

Flammability Class No Uniform Fire Code noted.

Specific hazards Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapors may form explosive mixtures with air. Vapors may be ignited by a spark, a hot surface or an ember.

Hazardous combustion products Toxic gases or vapors. Carbon monoxide (CO). Carbon dioxide (CO_2). Nitrous gases (NOx).

Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Contain and collect extinguishing water. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Wear chemical protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Stop leak if safe to do so. If leakage cannot be stopped, evacuate area. Provide adequate ventilation. Cover large spillages with alcohol-resistant foam. Contain spillage with sand, earth or other suitable non-combustible material. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

Reference to other sections For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

7. Handling and storage

Precautions for safe handling

Usage precautions Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Use explosion-proof electrical, ventilating and lighting equipment. Avoid spilling. Avoid breathing vapours. In case of insufficient ventilation, wear suitable respiratory equipment.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Provide eyewash station. Provide shower facilities near the workplace. Wash promptly with soap and water if skin becomes contaminated.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a well-ventilated place. Stir Thoroughly before and during use. Refer to SDS.

Storage class Flammable liquid storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

butanone

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 590 mg/m³
Short-term exposure limit (15-minute): ACGIH 300 ppm 885 mg/m³
Long-term exposure limit (8-hour TWA): OSHA 200 ppm 590 mg/m³
ACGIH = American Conference of Governmental Industrial Hygienists.
OSHA = Occupational Safety and Health Administration.

butanone (CAS: 78-93-3)

Immediate danger to life and health 3000 ppm

Exposure controls

Protective equipment

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Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Ensure that the direction of airflow is clearly away from the worker. Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of vapors. Ensure operatives are trained to minimize exposure.
Eye/face protection	Wear chemical splash goggles.
Hand protection	It is recommended that gloves are made of the following material: Rubber (natural, latex). Polyvinyl chloride (PVC). Neoprene. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.
Hygiene measures	Do not smoke in work area. Contaminated clothing should be placed in a closed container for disposal or decontamination. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. When spraying, wear a suitable supplied-air respirator. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Check that the respirator fits tightly and the filter is changed regularly.
Environmental exposure controls	Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Volatile liquid.
Color	Colorless.
Odor	Characteristic. Solvent.
Melting point	~-86°C
Initial boiling point and range	~79°C @ 760 mm Hg
Flash point	~-5°C CC (Closed cup).
Evaporation rate	>1 (butyl acetate = 1)
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.8 % Upper flammable/explosive limit: 11.5 %
Vapour pressure	~75 mm Hg @ 25°C
Vapour density	(Air=1) ~2.4
Relative density	0.81-0.81 @ 25°C
Solubility(ies)	Miscible with the following materials: Organic solvents.
Auto-ignition temperature	>250°C
Other information	None.

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Refractive index	Not known.
Volatile organic compound	No information available.

10. Stability and reactivity

Reactivity	The reactivity data for this product will be typical of those for the following class of materials: Hydrocarbons. Flammable/combustible materials.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	None known.
Conditions to avoid	Avoid heat.
Materials to avoid	Avoid contact with strong oxidizing agents. Avoid contact with strong reducing agents.
Hazardous decomposition products	Heating may generate flammable vapors. Heating may generate the following products: Carbon monoxide (CO). Carbon dioxide (CO_2). Nitrous gases (NO_x).

11. Toxicological information

Information on toxicological effects

Toxicological effects	No information available.

Specific target organ toxicity - single exposure

Target organs	Respiratory system, lungs Mucous membranes

Specific target organ toxicity - repeated exposure

Target organs	Respiratory system, lungs Mucous membranes

Aspiration hazard

Aspiration hazard	May be harmful if swallowed and enters airways.

General information	Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapor concentrations.
Inhalation	Harmful by inhalation. Gas or vapor in high concentrations may irritate the respiratory system. Vapors may cause headache, fatigue, dizziness and nausea.
Ingestion	May cause internal injury. Nausea, vomiting.
Skin Contact	Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. Eczema/contact dermatitis.
Eye contact	Irritation of eyes and mucous membranes.
Acute and chronic health hazards	This product may cause skin and eye irritation. Prolonged inhalation of high concentrations may damage respiratory system.
Route of entry	Inhalation Ingestion Skin absorption Skin and/or eye contact
Target Organs	Respiratory system, lungs Mucous membranes
Medical Symptoms	Symptoms following overexposure to vapor may include the following: Coughing, chest tightness, feeling of chest pressure. Difficulty in breathing. Dizziness. Symptoms following overexposure may include the following: Dry skin.

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12. Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful effect on the environment.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Other adverse effects Not known.

13. Disposal considerations

Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of contents/container in accordance with local regulations.

14. Transport information

General Wear protective clothing as described in Section 8 of this safety data sheet.

Road transport notes Avoid releasing into the environment.

Sea transport notes Do not release into the environment.

UN Number

UN No. (DOT) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

UN proper shipping name

Proper shipping name (DOT) PAINT RELATED MATERIAL

Proper shipping name (IMDG) PAINT RELATED MATERIAL

Proper shipping name (ICAO) PAINT RELATED MATERIAL

Transport hazard class(es)

IMDG Class 3

ICAO class/division 3

Transport labels

Packing group

DOT pack group II

IMDG packing group II

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ICAO packing group II

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user

EmS F-E, S-E

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

16. Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.
Change of Company Name

Issued by HS&E Manager.

Revision date 10/7/2015

Revision 1

Supersedes date 7/24/2015

SDS No. 4594

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

STIR STIR BEFORE USE