

Safety Data Sheet

according to regulation (EU) No. 453/2010, annex I

winterhalter

C 4 SC formerly C4

1. Identification of the mixture and of the company

1.1. Product identifier

C 4 SC

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

Super Concentrate Heavy Duty Cleaner & Degreaser

1.3. Details of the supplier who has provided the safety data sheet

Winterhalter Ltd, Winterhalter House, Roebuck Way, Knowlhill, MK5 8WH

Milton Keynes

Phone: +44 (0) 1908 / 359000, Fax: +44 (0) 1908 / 359060

E-mail: info@winterhalter.co.uk

1.4. Emergency telephone number

2. Hazards Identification

2.1. Classification of the mixture

Classification according to EC 1272/2008 (CLP)

Physical and Chemical Hazards	Not classified
Human health	Acute Tox.4; H 302 Skin Irrit.2; H 315 Eye Dam.1; H 318
Environment	Not classified

Classification according to EC 67/548 or EC 1999/45

Xn	Harmful
Xi	Irritant
R 22	Harmful if swallowed.
R 38	Irritating to skin.
R 41	Risk of serious damage to eyes.

2.2. Classification according to EC 1272/2008 (CLP) Label elements



Signal word: **Danger**

Contains: **Fatty Alcohol Ethoxylate**

Hazard Statements:

H 302	Harmful if swallowed
H 315	Causes skin irritation.
H 318	Causes serious eye damage.

Safety Data Sheet

according to regulation (EU) No. 453/2010, annex I

winterhalter

C 4 SC formerly C4

Precautionary Statements:

P 102	Keep out of reach of children.
P 280c	Wear eye protection.
P 280d	Wear face protection.
P 301+312	IF SWALLOWED: Immediately call a poison center or doctor/physician if you feel unwell.
P 302+352	IF ON SKIN: Wash with plenty of soap and water.
P 305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P 315	Get immediate medical advice/ attention.
P 332+313	If skin irritation occurs: Get medical advice/ attention. Dispose of contents/containers as normal waste.

2.3. Other hazards

The product does not contain any substances which are identified as persistent, bioaccumulative and toxic (PBTs) or very persistent and very bioaccumulative (vPvBs) according to 1907/2006/EC, annex XIII.

3. Composition/information on ingredients

3.1. Substances

This product is a mixture.

3.2. Mixtures

Hazardous ingredients:	Description	%	Classification according to regulation (EC) No. 1272/2008	Classification according to the directive 67/548/EEC	Acute toxicity
CAS:112-34-5 EINECS: 203-961-6	2-(2-Butoxyethoxy) ethanol	10-30	Eye Irrit.2; H 319;	Xi; R 36	
CAS:90170-43-7 EINECS:290-476-8	Alkylamine Dicarboxylate	5-10	Eye Irrit.2; H 319;	Xi; R 36	
CAS:68439-45-2 EINECS:	Fatty Alcohol Ethoxylate	30-60	Acute Tox.4; Eye Dam.1; H 302, H 318;	Xn, Xi; R 22, R 41;	
CAS:1310-73-2 EINECS: 215-185-5	Sodium hydroxide	1-5	Skin Irrit.2; H 315;	C; R 35	
CAS:102-71-6 EINECS:	Triethanolamine	5-10	Acute Tox.4; Skin Irrit.2; Eye Dam.1; STOT Rep.2; H 302, H 315, H 318, H 373;	Xn, Xi; R 22, R 48/22, R 38, R 41;	

Note: These risk characteristics relate to the properties of the pure ingredients. For the labelling of the preparation (product), see section 2. You will find the full text of the R-phrases and hazard statements in section 16.

Safety Data Sheet

according to regulation (EU) No. 453/2010, annex I

winterhalter

C 4 SC formerly C4

4. First aid measures

4.1. Description of first aid measures

Remove contaminated clothing immediately. If health problems arise, seek medical advice immediately. Remove victim immediately from source of exposure.

After inhalation:	Remove victim immediately from source of exposure. Keep the affected person warm and at rest. Get prompt medical attention.
After contact with the skin:	Wash off with soap and water and rinse well. Take off any pieces of clothing that have been contaminated by the product.
After contact with the eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After swallowing:	Wash out mouth and drink plenty of water. Do not induce vomiting. Seek medical advice immediately and show package or label.

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

If in doubt or if health problems arise, seek medical advice immediately.

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

None

5. Fire-fighting measures

5.1. Extinguishing media

Suitable: Water jet, alcohol resistant foam, extinguishing powder, carbon dioxide.

Unsuitable: none known

5.2. Particular dangers arising from the mixture

None known.

5.3. Notes for fighting fires

The product is not flammable. Select fire-fighting media appropriate for surrounding materials. Use self-contained breathing apparatus. Wear chemical protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and procedures to be used in cases of emergency

Avoid contact with skin and eyes. Wear personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow to get into the drainage system, surface water, ground water or ground.

6.3. Methods and material for retention and cleaning

Pick up using a mechanical aid and bring to suitable containers for disposal.

Handle the material collected as per section Disposal. Stop leak if possible without risk.

6.4. Reference to other sections

Observe notes and protective measures in sections 7 and 8.

Safety Data Sheet

according to regulation (EU) No. 453/2010, annex I

winterhalter

C 4 SC formerly C4

7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Do not mix with other products. Do not eat, drink or smoke in areas where work is being performed. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Ensure good room ventilation; avoid dust accumulation.

7.2. Conditions for safe storage, taking incompatibilities into account

Protect the product from moisture; store in original containers.

Keep containers tightly closed. Store in a dark, cool, well-ventilated place. Keep away from acids.

Follow local regulations for storage for hazardous/corrosive substances.

7.3. Specific end application

See section 1.2.

8. Exposure controls/personal protective equipment

8.1. Control parameters

Ingredients	STD	TWA - 8 Hrs (mg/m ³)	TWA - 8 Hrs (mg/m ³)	STEL-15 Min (mg/m ³)	STEL-15 Min (ppm)
Sodium hydroxide	WEL			2	

8.2. Exposure controls

Wear appropriate clothing to prevent any possibility of skin contact.

Personal protective equipment:

Respiratory protection: No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection: Protective gloves according to EN 374. A list of suitable brands with detailed information concerning wearing times is available on request.

Eye protection: Protective glasses/face protection

9. Physical and chemical properties

9.1. Important information on physical and chemical properties

Aggregate state:	Liquid
Colour:	yellow
Odour:	characteristic
pH value (20°C):	not determined
Boiling point (°C):	not determined
Flash point (°C):	not applicable
Boiling point/melting temperature range (°C)	not determined
Explosive properties:	no danger of explosion
Oxidising properties:	not determined
Vapour pressure:	not determined
Relative density (20°C) g/cm ³	1.032

Safety Data Sheet

according to regulation (EU) No. 453/2010, annex I

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C 4 SC formerly C4

Water solubility (20°C):	soluble in all proportions
Solubility:	not determined
Partition coefficient: n-octanol/water:	not determined
Viscosity (20°C) mPa s:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

9.2. Other information

Further physical and chemical property data has not been determined.

10. Stability and reactivity

10.1. Reactivity

Reaction with water and acids forming heat.

10.2. Chemical stability

The product is chemically stable under normal ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

The product is chemically stable under normal ambient conditions (room temperature).

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid contact with acids.

10.5. Incompatible materials

Acids, Oxidising substances

10.6. Hazardous decomposition products

Fire creates: Carbon monoxide (CO), Carbon dioxide (CO₂).

11. Toxicological information

11.1. Toxicokinetics, metabolism and distribution

The toxicology of this product has not been examined. Due to its composition, the product has been classified as not toxic in category 2 according to 1999/45/EC. Potentially toxic ingredients have been noted in category 3.

Acute toxicity

Acute toxicity of the ingredients in their relevant concentrations: see section 3.

Irritation, caustic effect, sensitisation

Product classification according to 1999/45/EC: see section 2.

Toxicity upon repeated contact

No data available.

Carcinogenicity, mutagenicity, reproductive toxicity

The concentration of product ingredients with carcinogenic, mutagenic and/or reproductively toxic characteristics is negligible.

12. Ecological information

12.1. Toxicity

no data available. Not regarded as dangerous for the environment.

12.2. Persistence and degradability

All of the organic ingredients contained in the product comply with the test criteria stipulated by OECD 302 B and the values stipulated in the EC Regulation on Detergents 648/2004 for complete biodegradability.

12.3. Bioaccumulative potential

The concentration of product ingredients with bioaccumulative potential is negligible.

Safety Data Sheet

according to regulation (EU) No. 453/2010, annex I

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C 4 SC formerly C4

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

See section 2.3.

12.6. Other adverse effects

An ecological certificate containing detailed information regarding the product's environmental compatibility is available on request.

13. Disposal considerations

13.1. Waste treatment methods

Product residues: Destruction (incineration) of product residues by an authorised specialist disposal company, as required by regulations.

Untreated packaging: Contaminated packaging made of HDPE must be emptied as far as possible and then sealed; it can then be put into a recycling system or landfill or can be incinerated.

Local regulations must be observed

14. Transport information

14.1. UN number:

-

14.2. Proper UN shipping name:

ADR/RID

-

IMDG-Code / ICAO T. I. / IATA DGR

-

14.3. Dangerous goods class:

-

14.4. Packaging group:

-

14.5. Environmental hazards

ADR / RID / IMDG-Code / ICAO T. I. / IATA DGR:

-

14.6. Special precautions for the shipper:

-

14.7 Bulk goods transport according to annex II of the MARPOL convention 73/78 and according to IBC code:

The product is not intended to be transported as bulk cargo.

Safety Data Sheet

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C 4 SC formerly C4

15. Regulatory information

15.1 Safety, health and environmental regulations, specific Regulatory information for the mixture

The product is an aqueous preparation and contains < 30% organic solvents (VOC) according to 1999/13/EC

Ingredients (acc. to 648/2004/EC)

National regulations:

15.2. Chemical safety assessment

The product was not subjected to a chemical safety assessment according to 1907/2006/EC, annex I.

16. Other information

Full text of R-phrases mentioned in section 3

R 35	Causes severe burns.
R 22	Harmful if swallowed.
R 48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R 36	Irritating to eyes.
R 38	Irritating to skin.
R 41	Risk of serious damage to eyes.

Full text of hazard statements mentioned in section 3

H 318	Causes serious eye damage.
H 319	Causes serious eye irritation.
H 315	Causes skin irritation.
H 302	Harmful if swallowed.
H 373	May cause damage to organs through prolonged or repeated exposure.

The source data used to create the safety data sheet can be found in the preliminary supplier's safety data sheets.

The above information is given to the best of our knowledge and on the basis of experience to date. It is intended to describe our product with regard to possible occupational or environmental safety requirements, but does not constitute an assurance of specific quality characteristics.

Significant modifications to the previous version are marked by a horizontal line.