James Law (Chemicals) LTD SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation Hard Surface Cleaner

of the mixture

Registration number

Synonyms None.

Issue date 16-July-2015 Revision date :01/11/2019

Version number 02

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

Identified uses Preparatory and cleaning products

Uses advised against No other uses are advised.

1.3. Details of the supplier of the safety data sheet

UK

Company name James Law (Chemicals Ltd)
Address Crossley Street Works

Royal Street, Smallbridge Rochdale OL16 2QA

UK

Telephone +44(0)1706 644940 Fax +44(0)1706 644037

e-mail sales@jameslawchemicals.com
Website www.jameslawchemicals.com

1.4 Emergency telephone

numbei

+44(0)1706 644940

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 Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation Category 1B H314 - Causes severe skin burns

and eye damage.

Hazard summary

Causes burns. Do not breathe vapour or spray.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2-Butoxyethanol, Sodium hydroxide

Hazard pictograms

Signal word Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention

P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe mist or vapour.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P101 If medical advice is needed, have product container or label at hand.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see this label).

P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information EUH208 - Contains Dipentene, Pine, Ext.. May produce an allergic reaction.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

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

2-Butoxyethanol 5 - < 10 111-76-2 01-2119475108-36-xxxx 603-014-00-0 #

203-905-0

Classification:

CLP: Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Irrit. 2;H319

Sodium hydroxide 3 - < 5 1310-73-2 01-2119457892-27-xxxx 011-002-00-6

215-185-5

Classification:

CLP: Met. Corr. 1;H290, Skin Corr. 1A;H314

Trisodium nitrilotriacetate 1 - < 3 5064-31-3 01-2119519239-36-xxxx 607-620-00-6

225-768-6

Classification:

CLP: Acute Tox. 4;H302, Eye Irrit. 2;H319, Carc. 2;H351

C12-C14 < 1 68391-01-5 - -

Alkyldimethylbenzylammonium

chloride

269-919-4

Classification:

CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Eye Dam.

1;H318, Aquatic Acute 1;H400

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Community workplace exposure limit(s).

Composition comments The full text for all H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control centre immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

Ingestion Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

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

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective

equipment for firefighters

procedures

Special fire fighting

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if

significant spillages cannot be contained. For personal protection, see section 8.

For emergency responders

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

SDS

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

Never return spills to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Do not breathe mist or vapour. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe

good industrial hygiene practices.

Not available.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Keep out of the reach of children. Store

away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	
2-Butoxyethanol (111-76-2)	STEL	50 ppm	
		246 mg/m3	
	TWA	123 mg/m3	
		25 ppm	
Sodium hydroxide (1310-73-2)	STEL	2 mg/m3	

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

Components	Туре	Value	
2-Butoxyethanol (111-76-2)	STEL	246 mg/m3	
		50 ppm	
	TWA	98 mg/m3	
		20 ppm	

Biological limit values

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling time
2-Butoxyethanol (111-76-2)	240	Butoxyacetic	Creatinine	Sampling time:
	mmol/mol	acid	in urine	End of shift.

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
Sodium hydroxide (CAS 1310-73-2)	Consumer	Inhalation	1 mg/m3	Long term Local effects
	Industry	Inhalation	1 mg/m3	Long term Local effects
Trisodium nitrilotriacetate (CAS 5064-31-3)	Consumer	Oral	0,9 mg/kg bw/day	Acute Systemic effects
		Oral	0,3 mg/kg bw/day	Long term Systemic effects
	Industry	Inhalation	9,6 mg/m3	Acute Systemic effects
		Inhalation	3,2 mg/m3	Long term Systemic

effects

Predicted no effect concentrations (PNECs)

Not available.

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required.

Eye/face protection Avoid contact with eyes. Personal protective equipment for eye and face should comply with

European Standard EN166. The following protection should be worn: Chemical splash goggles or

face shield.

Skin protection

- Hand protection Chemical resistant, impervious gloves complying with European Standard EN374 should be worn.

-Other Chemical resistant clothing should be worn to prevent any possibility of skin contact.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing

concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards Not applicable.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

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 aqueous-organic solution

Colour Red.

Odour Characteristic.

Odour threshold Not applicable
pH > 12.0 estimated

Melting point/freezing point Not applicable
Initial boiling point and boiling Not applicable

range

Flash point Not applicable
Evaporation rate Not applicable
Flammability (solid, gas) Not applicable

Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable

(%)

Flammability limit - upper

Not applicable

(%)

Vapour pressure Not applicable
Vapour density Not applicable
Relative density Not available.

Solubility(ies)

Solubility (water) Miscible
Solubility (other) Not available.

Auto-ignition temperature Not applicable
Decomposition temperature Not applicable
Viscosity Not applicable
Explosive properties Not applicable
Oxidizing properties Not applicable

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity Strong acids.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

G

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns.

Symptoms Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

11.1. Information on toxicological effects

Components Species Test results

2-Butoxyethanol (CAS 111-76-2)

Acute Dermal

LD50 Rabbit > 2000 mg/kg, 24 hours semi-occlusive

Rat > 2000 mg/kg, 24 hours occlusive

Oral

LD50 Guinea pig 1414 mg/kg

NOAEC Guinea pig 500 mg/kg single dose

Dipentene (CAS 138-86-3)

Acute

Dermal

LD50 Rabbit 5 g/kg

Oral

LD50 Rat 5 g/kg

Sodium hydroxide (CAS 1310-73-2)

Acute Other

LD50 Mouse 40 mg/kg

Trisodium nitrilotriacetate (CAS 5064-31-3)

Acute Oral

LD50 Monkey 750 mg/kg

Mouse 681 mg/kg

Components Species Test results
Rat 1100 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory sensitisation

Due to partial or complete lack of data the classification is not possible.

Skin sensitisation

Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

Due to partial or complete lack of data the classification is not possible.

Reproductive toxicity

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

Other information May cause allergic respiratory and skin reactions.

SECTION 12: Ecological information

12.1. Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test results

2-Butoxyethanol (CAS 111-76-2)

Aquatic

Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours

Sodium hydroxide (CAS 1310-73-2)

Aquatic

Crustacea EC50 Daphnia 40.4 mg/l, 48 hours Immobility

Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours

Trisodium nitrilotriacetate (CAS 5064-31-3)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 93 - 170 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

12.2. Persistence No data is available on the degradability of this product.

and degradability

12.3. Bioaccumulative potential No data available.

Partition coefficient

n-octanol/water (log Kow)

2-Butoxyethanol 0,83
Dipentene 4,232

Bioconcentration factor (BCF)

Not available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT

Not available.

and vPvB assessment

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local

regulations.

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

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1760

14.2. UN proper Corrosive liquid, n.o.s. (Sodium hydroxide, C12-C14 Alkyldimethylbenzylammonium chloride)

shipping name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Hazard No. (ADR) 80
Tunnel restriction code E
14.4. Packing group III
14.5. Environmental No.

hazards Read safety instructions, SDS and emergency procedures before handling.

14.6. Special precautions for

RID user

UN1760

14.1. UN number Corrosive liquid, n.o.s. (Sodium hydroxide, C12-C14 Alkyldimethylbenzylammonium chloride)

14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
14.4. Packing group III
14.5. Environmental No.

hazards Read safety instructions, SDS and emergency procedures before handling.

14.6. Special precautions for

user

ADN UN1760

14.1. UN number Corrosive liquid, n.o.s. (Sodium hydroxide, C12-C14 Alkyldimethylbenzylammonium chloride)

14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Class

Subsidiary risk Label(s)

14.4. Packing group

14.5. Environmental

hazards

14.6. Special precautions for

user

IATA

14.1. UN number

14.2. UN proper shipping

No.

Read safety instructions, SDS and emergency procedures before handling.

UN1760

Corrosive liquid, n.o.s. (Sodium hydroxide, C12-C14 Alkyldimethylbenzylammonium chloride)

14.3. Transport hazard class(es)

Class 8
Subsidiary risk
14.4. Packing group III

14.5. Environmental hazards No.
ERG Code 8L

14.6. Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only Allowed.

IMDG

14.1. UN number UN1760

14.2. UN proper Corrosive liquid, n.o.s. (Sodium hydroxide, C12-C14 Alkyldimethylbenzylammonium chloride)

shipping name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk
14.4. Packing group III

14.5. Environmental

hazards Marine No.
pollutant F-A, S-B

EmS Read safety instructions, SDS and emergency procedures before handling.

14.6. Special precautions for

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

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

ADN; ADR; IATA; IMDG; RID



SECTION 15: Regulatory information

15.1. 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.

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

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

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

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.

Trisodium nitrilotriacetate (CAS 5064-31-3)

Other EU regulations

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

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

2-Butoxyethanol (CAS 111-76-2)

Dipentene (CAS 138-86-3)

Sodium hydroxide (CAS 1310-73-2)

Trisodium nitrilotriacetate (CAS 5064-31-3)

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

Dipentene (CAS 138-86-3)

Sodium hydroxide (CAS 1310-73-2)

Trisodium nitrilotriacetate (CAS 5064-31-3)

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

The product is classified and labelled in accordance with EC directives or respective national laws.

Additional information is given in the Material Safety Data Sheet.

National regulations Young people under 18 years old are not allowed to work with this product according to EU

Directive 94/33/EC on the protection of young people at work. Follow national regulation for work

with chemical agents.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture

Full text of any statements or R-phrases and H-statements under Sections 2 to 15 The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H400 Very toxic to aquatic life.

Revision information None.

Training information Follow training instructions when handling this material.

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

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