JAWEL PAINTS LTD SAFETY DATA SHEET CDA

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

1.1. Product identifier	
Product name	CDA
Product number	S659
Internal identification	SWS
Synonyms; trade names	Completely Denatured Alcohol

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

Identified uses	Screenwash
Uses advised against	Use only for intended applications.

1.3. Details of the supplier of the safety data

<u>sheet</u> Supplier

Jawel Paints West Midlands Ltd Units 313 -317 Heath Street B66 2QY Tel 0121 558 6191

1.4. Emergency telephone number

Emergency telephone 0844 5605341 (24 Hours) (in use from 13/01/13)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC
1272/2008)Physical hazardsHealth hazardsNot Classified

Environmental hazards Not Classified

2.2. Label elements Pictogram



Danger

Hazard statements

H225 Highly flammable liquid and vapour.

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Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P403+P235 Store in a well-ventilated place. Keep cool.

Supplementary precautionary P233 Keep container tightly closed.

statements

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

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 or shower.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

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

2.3. Other hazards

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

Ethanol			55-90%
CAS number: 64-17-5	EC number: 200-578-6		
Classification			
Flam. Liq. 2 - H225			
Propan-2-ol			<5%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-	
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01- 2119457558-25-XXXX	
	EC number: 200-661-7		
CAS number: 67-63-0 Classification Flam. Liq. 2 - H225	EC number: 200-661-7		
Classification	EC number: 200-661-7		

Butanone

CAS number: 78-93-3

EC number: 201-159-0

REACH registration number: 01-2119457290-43-XXXX

Classification

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

Bitrex

CAS number: 3734-33-6

Classification

Not Classified

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

<0.5%

<5%

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation personnel may assist affect Ingestion Skin contact Eye contact	Move affected person to fresh air at once. When breathing is difficult, properly trained ted person by administering oxygen. If breathing stops, provide artificial respiration. Do not induce vomiting. If swallowed, wash out mouth with water, provided person is conscious Seek immediate medical assistance. Rinse immediately with plenty of water. Remove contaminated clothing. Important! Immediately rinse with water for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Seek medical advise.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important symp	toms and effects, both acute and delayed
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest. May cause an asthma-like shortness of breath.
Ingestion	Overexposure may cause the following adverse effects: Unconsciousness. Nausea, vomiting.
Skin contact	There may be irritation and redness at the site of contact. An itchy rash may occur at the site
	of contact.
Eye contact	There may be pain and redness.
4.3. Indication of any imm	nediate medical attention and special treatment needed

Notes for the doctor	If exposed or concerned get medical advice/attention.
Specific treatments	Eye bathing equipment should be available on the premises.

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.
media	
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards Hazardous combustion	Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Carbon dioxide (CO2). Carbon monoxide (CO).
products 5.3. Advice for firefighters	
Protective actions during	Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes
firefighting Special protective equipment	and skin. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective
for firefighters	clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

For non-emergency personnel Follow instructions given by emergency personnel.

For emergency responders Refer to this MSDS.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Contain the spillage using bunding. Avoid release to the environment. Alert the neighbourhood to the presence of fumes or gas.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Evacuate Area Absorb spillage with sand or other inert absorbent. Use non-sparking tools Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections See Section 1 for emergency contact information. For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on general	Take off contaminated clothing and wash it before re-use.

occupational hygiene

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in a cool and well-ventilated place. Do not store near heat sources or expose to high
	temperatures. Store away from the following materials: Oxidising materials. Acids.
Storage class	Flammable liquid storage.

7.3. Specific end use(s)

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

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³ **Ethanol** Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³ Short-term exposure limit (15-minute): WEL

Propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

Butanone

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 600 mg/m3(Sk) Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 899 mg/m3(Sk) WEL = Workplace Exposure Limit

PNEC

No data available.

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		Ethanol (CAS: 64-17-5)	
DNEL	No data available.		
PNEC	No data available.		
		Butanone (CAS: 78-93-3)	
DNEL	No data available.		
PNEC	No data available.		
		Propan-2-ol (CAS: 67-63-0)
DNEL	No data available.		_
PNEC	No data available.		
8.2. Exposure control	S		
Protective equipment			
	38		
Appropriate engineer	ing Provide adequate general a	and local exhaust ventilation. (Observe any occupational exposure
controls			h stations and showers are close to
the workstation		,	
Eye/face protection	The following protection sh	ould be worn: Chemical splas	h goggles. Wear tight-fitting, chemical
splash goggles or face	shield.		
Hand protection	It is recommended that glov	ves are made of the following	material: Polyvinyl chloride (PVC).
Rubber (natural, latex).			
Other skin and body	Wear appropriate clothing t	o prevent any possibility of sk	in contact. Overall or lab coat
protection			
Hygiene measures	Wash promptly with soap a	nd water if skin becomes con	taminated.
Respiratory protectio	n Wear a full facepiece respi	rator fitted with the following c	artridge: Organic vapour filter.

SECTION 9: Physical and Chemical Properties 9.1. Information on basic physical and chemical properties

Anno 210000	Clearliquid
Appearance	Clear liquid.
Colour	Purple.
Odour	Alcoholic.
Odour threshold	Data lacking.
рН	Data lacking.
Melting point	Data lacking.
Initial boiling point and range	Data lacking.
Flash point	Data lacking.
Evaporation rate	Data lacking.
Evaporation factor	Data lacking.

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Flammability (solid, gas)	Data lacking.
Upper/lower flammability or	Data lacking.
explosive limits Other flammability	Data lacking.
Vapour pressure	Data lacking.
Vapour density	Data lacking.
Relative density	0.805 @ 20°C
Bulk density	Data lacking.
Solubility(ies)	Data lacking.
Partition coefficient	Data lacking.
Auto-ignition temperature	Data lacking.
Decomposition Temperature	Data lacking.
Viscosity	Data lacking.
Explosive properties	Not considered to be explosive.
Explosive under the influence	Not considered to be explosive.
of a flame Oxidising properties	There are no chemical groups present in the product that are associated with oxidising properties.
9.2. Other information	
9.2. Other information Other information	None.
Other information	tivity
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity	
Other information SECTION 10: Stability and read 10.1. Reactivity	tivity
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability	Stable at normal ambient temperatures and when used as recommended.
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability	Stable at normal ambient temperatures and when used as recommended.
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous	Stable at normal ambient temperatures and when used as recommended.
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous r	Stable under recommended transport or storage conditions. Stable at normal ambient temperatures and when used as recommended. reactions
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous r Possibility of hazardous reactions 10.4. Conditions to avoid	Stable under recommended transport or storage conditions. Stable at normal ambient temperatures and when used as recommended. reactions Will not polymerise.
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous r Possibility of hazardous reactions	Stable under recommended transport or storage conditions. Stable at normal ambient temperatures and when used as recommended. reactions
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid Conditions to avoid	Stable under recommended transport or storage conditions. Stable at normal ambient temperatures and when used as recommended. reactions Will not polymerise.
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid Conditions to avoid 10.5. Incompatible materials	stable under recommended transport or storage conditions. Stable at normal ambient temperatures and when used as recommended. reactions Will not polymerise. Keep away from heat, sparks and open flame. Strong oxidising agents. Alkali metals. Amines. acid chlorides. peroxides. acid anhydrides.
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid Conditions to avoid 10.5. Incompatible materials Materials to avoid	stable under recommended transport or storage conditions. Stable at normal ambient temperatures and when used as recommended. reactions Will not polymerise. Keep away from heat, sparks and open flame. Strong oxidising agents. Alkali metals. Amines. acid chlorides. peroxides. acid anhydrides.
Other information SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid Conditions to avoid 10.5. Incompatible materials Materials to avoid 10.6. Hazardous decomposition	stable under recommended transport or storage conditions. Stable at normal ambient temperatures and when used as recommended. eactions Will not polymerise. Keep away from heat, sparks and open flame. Strong oxidising agents. Alkali metals. Amines. acid chlorides. peroxides. acid anhydrides. products

Other health effects

There is no evidence that the product can cause cancer.

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Acute toxicity - oral

Notes (oral LD₅₀)	Based on available data the classification criteria are not met.	
Acute toxicity - dermal		
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.	
Acute toxicity - inhalation		
Natao (inholation LC)	Based on available data the classification criteria are not met.	
Notes (inhalation LC 5 0) Skin corrosion/irritation	Based of available data the classification chiena are not met.	
Skill corrosion/irritation		
Skin corrosion/irritation	Based on available data the classification criteria are not met.	
Serious eye damage/irritatio		
Corious que demonalirritatio	n Based on available data the classification criteria are not met.	
Serious eye damage/irritatio Respiratory sensitisation	n based on available data the classification chiena are not met.	
Respiratory sensitisation	Based on available data the classification criteria are not met.	
Skin sensitisation		
Skin sensitisation	Based on available data the classification criteria are not met.	
Germ cell mutagenicity		
	Describer and the data the star first in with the second sector	
Genotoxicity - in vitro	Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.	
Genotoxicity - in vivo	Based of available data the classification chiena are not met.	
Carcinogenicity		
Carcinogenicity	Based on available data the classification criteria are not met.	
Reproductive toxicity		
Reproductive toxicity - fertili	ty Based on available data the classification criteria are not met.	
Reproductive toxicity -	No evidence of reproductive toxicity in animal studies.	
development		
Specific target organ toxicity	/ - single exposure	
STOT - single exposure Based on available data the classification criteria are not met. Specific target organ toxicity - repeated exposure		
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.	
Aspiration hazard Aspiration hazard		
Inhalation	No adverse effects known.	
Ingestion	No adverse effects known.	
Skin contact	No adverse effects known.	
Eve contact		
2	No adverse effects known.	
Acute and chronic health	Only large quantities are likely to have adverse effects on human health.	
hazards		
Route of exposure	Inhalation Skin and/or eye contact Ingestion	
Target organs	Not relevant.	

Inhalation

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Medical symptoms No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals. Toxicological information on ingredients. Ethanol IARC Int. Agency for Cancer Research. Other health effects Acute toxicity - oral Notes (oral LD 5 0) Based on available data the classification criteria are not met. Acute toxicity - dermal Notes (dermal LD 5 0) Based on available data the classification criteria are not met. Acute toxicity - inhalation Notes (inhalation LC 50) Based on available data the classification criteria are not met. Skin corrosion/irritation Skin corrosion/irritation Not irritating. Serious eye damage/irritation Serious eye Not irritating to eyes damage/irritation **Respiratory sensitisation Respiratory sensitisation** Not sensitising. Skin sensitisation Skin sensitisation Not sensitising. Germ cell mutagenicity This substance has no evidence of mutagenic properties. Genotoxicity - in vitro Genotoxicity - in vivo Carcinogenicity This substance has no evidence of mutagenic properties. Carcinogenicity There is no evidence that the product can cause cancer. **Reproductive toxicity** Reproductive toxicity -This substance has no evidence of toxicity to reproduction. fertility Reproductive toxicity -No evidence of reproductive toxicity in animal studies. development Specific target organ toxicity - single exposure STOT - single exposure Not classified as a specific target organ toxicant after a single exposure. Specific target organ toxicity - repeated exposure STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure. Aspiration hazard Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

There may be irritation of the throat with a feeling of tightness in the chest.

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Ingestion	May cause liver and/or renal damage.	
Skin contact	Skin irritation should not occur when used as recommended.	
Eye contact	There may be pain and redness.	
Acute and chronic health	Gas or vapour is harmful on prolonged exposure or in high concentrat	ions.
hazards Route of exposure	Symptoms following overexposure may include the following: Irritation mucous membranes. Narcotic effect. A single exposure may cause the adverse effects: Central nervous system depression. Repeated expos cause chronic eye irritation. High concentrations may cause severe lun Defatting, drying and cracking of skin. Swallowing concentrated chemic cause severe internal injury. Unconsciousness. Death. Inhalation Ingestion. Skin and/or eye contact	e following ure may ng damage.
Target organs	Central nervous system Eyes Gastro-intestinal tract Liver Respiratory	system lunas
Target organs		system, langs
Medical symptoms	Skin Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (infl	ammation of
Medical considerations	the nasal mucous membranes). Upper respiratory irritation. General redistress, unproductive cough. May cause suffocation. Nausea, vomitin nervous system depression. Drowsiness, dizziness, disorientation, ver Headache. Behavioural changes. Hypotension (low blood pressure). E Confusion, agitation and/or excitation. Convulsions. Central nervous system depression.	g. Central rtigo.
	Propan-2-ol	
Other health effects	There is no evidence that the product can cause cancer.	
Acute toxicity - oral		
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.	
Acute toxicity - dermal		
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.	
Acute toxicity - inhalation		
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.	
Skin corrosion/irritation		
Skin corrosion/irritation	Not irritating.	
Serious eye damage/irritat	ion	
Serious eye	Causes serious eye irritation.	
damage/irritation		
Respiratory sensitisation		
Respiratory sensitisation	Not sensitising.	
Skin sensitisation		
Skin sensitisation	Not sensitising.	
Germ cell mutagenicity		
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.	

Genotoxicity - in vivo This substance has no evidence of mutagenic properties.

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	Carcinogenicity	
	Carcinogenicity	There is no evidence that the product can cause cancer.
	Reproductive toxicity	· · · · · · · · · · · · · · · · · · ·
	Reproductive toxicity -	This substance has no evidence of toxicity to reproduction.
	fertility	
Reproductive	toxicity -	No evidence of reproductive toxicity in animal studies.
development		
Specific targe	t organ toxicity - single exposi	Jre
STOT - single	exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific targe	t organ toxicity - repeated exp	osure
STOT - repeat	ted exposure Not classified as a	specific target organ toxicant after repeated exposure.
Aspiration ha	-	
	<u></u> -	
	Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.
	Inhalation	Vapours in high concentrations are anaesthetic. Symptoms following overexposure
		may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
	Ingestion	Swallowing concentrated chemical may cause severe internal injury.
	Skin contact	Contains components which may penetrate the skin. Prolonged contact may cause
		redness, irritation and dry skin.
	Eye contact	Irritation of eyes and mucous membranes.
	Acute and chronic health	Gas or vapour is harmful on prolonged exposure or in high concentrations.
	hazards	Symptoms following overexposure may include the following: Irritation of eyes and
		mucous membranes. Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. Swallowing concentrated
		chemical may cause severe internal injury. Unconsciousness. Death.
	Route of exposure	Inhalation Ingestion. Skin and/or eye contact
	Target organs	Central nervous system Eyes Respiratory system, lungs Skin
	Medical symptoms	Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of
		the nasal mucous membranes). Upper respiratory irritation. General respiratory
		distress, unproductive cough. May cause suffocation. Skin irritation. Nausea,
		vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension
		(low blood pressure). Dizziness.
	Medical considerations	Convulsions. Central nervous system depression.
		Butanone
	Other health effects	There is no evidence that the product can cause cancer.
	Acute toxicity - oral	
	Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
	Acute toxicity - dermal	

Notes (dermal LD 5 0) Based on available data the classification criteria are not met.

Acute toxicity - inhalation Based on available data the classification criteria are not met. Notes (inhalation LC 50) Skin corrosion/irritation Skin corrosion/irritation Not irritating. Serious eye damage/irritation Serious eye Causes serious eye irritation. damage/irritation **Respiratory sensitisation** Respiratory sensitisation Not sensitising. Skin sensitisation Skin sensitisation Not sensitising. Germ cell mutagenicity This substance has no evidence of mutagenic properties. Genotoxicity - in vitro Genotoxicity - in vivo Carcinogenicity This substance has no evidence of mutagenic properties. Carcinogenicity There is no evidence that the product can cause cancer. **Reproductive toxicity Reproductive toxicity -**This substance has no evidence of toxicity to reproduction. fertility Reproductive toxicity -No evidence of reproductive toxicity in animal studies. development Specific target organ toxicity - single exposure STOT - single exposure Not classified as a specific target organ toxicant after a single exposure. Specific target organ toxicity - repeated exposure STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure. Aspiration hazard Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure. **General information** Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Inhalation Vapour from this product may be hazardous by inhalation. Ingestion May cause severe internal injury. Skin contact Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact May cause severe eye irritation.

Revision date: 11/07/2018 Revision: 3 Supersedes date: 23/08/2017 CDA Acute and chronic health Gas or vapour is harmful on prolonged exposure or in high concentrations. hazards Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. Vapour from this product may be hazardous by inhalation. Repeated exposure may cause chronic eye irritation. Defatting, drying and cracking of skin. Swallowing concentrated chemical may cause severe internal injury. Central and/or peripheral nervous system damage. Prolonged or repeated exposure may cause the following adverse effects: Serious damage to the lining of nose, throat and lungs. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Sore throat. Irritation of nose, throat and airway. Route of exposure Inhalation Ingestion. Skin absorption Skin and/or eye contact **Target organs** Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin Medical symptoms Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Unconsciousness. Medical considerations Chronic respiratory and obstructive airway diseases. Pre-existing eye problems. Skin disorders and allergies. Bitrex **General information** This material is used as a denaturent due to the extremely unpleasant taste that it imparts to other compounds (eg ethanol). Ingestion May cause severe internal injury. **SECTION 12: Ecological Information** Not regarded as dangerous for the environment. Ecotoxicity Ecological information on ingredients. Ethanol Ecotoxicity The product is not expected to be hazardous to the environment. Propan-2-ol Ecotoxicity Not regarded as dangerous for the environment. **Butanone** The product is not expected to be hazardous to the environment. Ecotoxicity 121 Toxicity Toxicity The product is not believed to present a hazard due to its physical nature. Acute aquatic toxicity LC 5 0, 96 hours: >100 mg/l, Fish Acute toxicity - fish **Ecological information on** ingredients. Ethanol

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	Toxicity		Not considered toxic to	fish.
	Acute aquatic toxicity			
	Acute toxicity -	fish	_LC₅₀, 96 hours: >100 r	ng/l, Fish Propan-2-ol
	Toxicity		Low	
	Acute aquatic toxicity			
	Acute toxicity -	fish	LC₅₀, 96 hours: >100 r	ng/l, Fish Butanone
	Toxicity		Low	
	Acute aquatic toxicity		_	
	Acute toxicity -	fish	LC₅₀, 96 hours: >100 r	ng/l, Fish Bitrex
	Toxicity		Very toxic to aquatic or	ganisms.
12.2. Persis degradabilit Persistence	and	No data	available.	<u> </u>
degradabilit Ecological i ingredients	nformation on			
			-	Ethanol
	Persistence and	l	No data available.	
	degradability			Propan-2-ol
	Persistence and	l	No data available.	
	degradability			Butanone
	Persistence and	I	No data available.	
12.3. Bioaco potential	degradability cumulative			
	lative potential	Data lac	king.	
Partition co	efficient	Data lac	king.	
Ecological i	nformation on		_	
				Ethanol
	Bioaccumulativ potential	е	The product is not bioa	ccumulating.
	Partition coeffic	ient	Data lacking.	

Propan-2-ol

	с	DA	
Bioaccumulative potential	Data lacking.		
Partition coefficient	Data lacking.		
Butanone			
Bioaccumulative potential	Data lacking.		
Partition coefficient	Data lacking.		
Bitrex			
Bioaccumulative potential	May accumulate in soil	and water systems.	
12.4. Mobility in soil			
Mobility Highly mob Ecological information on ingredients.	ile due to infinite water solub	-	
		Ethanol	
Mobility	Highly mobile due to infinite	water solubility.	
		Propan-2-ol	
Mobility	Highly volatile.		
		Butanone	
Mobility	Mobile.		
12.5. Results of PBT and vPvB assessment Results of PBT and vPvB This product does not contain any substances classified as PBT or vPvB. assessment Ecological information on ingredients			
		Ethanol	
Results of PBT and vPvB assessment		This product does not contain any substances classified as PBT or vPvB.	
Propan-2-ol			
Results of PBT and vPvB assessment		This product does not contain any substances classified as PBT or vPvB.	
		Butanone	
Results of PBT and vPvB This product 12.6. Other adverse effects	does not contain any substar	nces classified as PBT or vPvB. assessment	

SECTION 13: Disposal considerations 13.1. Waste treatment methods

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General information	If this product becomes waste it is to be treated as hazardous waste. Any other constituents		
	or contaminents in the waste stream must be taken into account when classifying the waste. In the EU, the European Waste Catalogue Code to be assigned is dependant on the processes giving rise to the waste. In the absence of any such processes having taken place EWC 140603* (other solvents and solvent mixtures) may be used. Hazardous waste must be suitably contained, stored, packaged and transported, see section 7 and 4 for such details. In the UK only waste carriers registered with the Environment Agency may transport waste.		
Disposal methods	Waste and residues must be disposed of in accordance with national regulatory requirements.		

SECTION 14: Transport information			
14.1. UN number			
	1000		
UN No. (ADR/RID)	1993		
UN No. (IMDG)	1993		
UN No. (ICAO)	1993		
UN No. (ADN)	1993		
14.2. UN proper shipping name			
Proper shipping name	FLAMMABLE LIQUID, N.O.S.		
(ADR/RID)			
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S.		
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S.		
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S.		
14.3. Transport hazard class(es)			
ADR/RID class	3		
ADR/RID classification code	F1		
ADR/RID label	3		
IMDG class	3		
ICAO class/division	3		
ADN class	3		

Transport labels



14.4. Packing group	
ADR/RID packing group	
IMDG packing group	Ш
ADN packing group	Ш
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS	F-E. S-E	
ADR transport category	2	
Emergency Action Code	•3YE	
Hazard Identification Number	33	
(ADR/RID)		
Tunnel restriction code	(D/E)	
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code		

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

SECTION 15: Regulatory information

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

National regulationsClassification, Packaging and Labelling Regulations 1984.Highly Flammable Liquid Regulations 1972.Health and Safety at Work etc. Act 1974 (as amended).The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms	CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008)]	
used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by	
Road.		
DNEL: Derived No Effect Level.		
PNEC: Predicted No Effect Conce	ntration.	
vPvB: Very Persistent and Very Bi	oaccumulative.	
General information	Please ensure that this Safety Data Sheet is passed onto the relevant person(s) in your	
	company, who are capable of acting on the information given.	
Key literature references and	Croner's :Substances Hazardous to the Environment.2005. www.msdssolutions.com Sigma	
sources for data	Aldrich msds Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax, 1984. OSHA Air	
Contaminants - Permissible Exposure Limits (Title 29). Hazardous Materials, Emergency Response Guidebook, DOT-P 5800.3, 198 NIOSH/OSHA Pocket Guide to Chemical Hazards, 1978. Chemical Hazards of the Workplace, F Hughes, Lippincott, 1978 Threshold Limit Values and Biological Exposure Indices for 1985-86. C Safety Data Guide. Bureau of National Affairs, 1985. NFPA49. Hazardous Chemical Data, 1975 Merck Index, 11. edition, 1989. Handbook of Toxic and Hazardous Chemicals and Carcinogens, 1985. Material Safety Data Sheet, Misc. manufacturers. Sigma-Aldrich Library of Chemical Safe Edition 2, 1988. The Condensed Chemical Dictionary, Hawley, 11th. edition, 1987. NIOSH/OSH Occupational Health Guidelines for Chemical Hazards, 1981. Suspect Chemicals Sourcebook, F Publications, 1985. The Firefighter's Handbook of Hazardous Materials, Maltese Ent. 1984. Eme Handling of Hazardous Materials in Surface Transportation, 1981. Rapid Guide to Hazardous Chemical in the Workplace, NI Sax, 1986. IPCS via ILO		
Revision comments	GHS update	

Issued by	Nicola Dobson, Technical Services Supervisor		
Revision date	11/07/2018		
Revision	3		
Supersedes date	23/08/2017		
SDS number	20942		
SDS status	Approve	ed.	
Hazard statements in full	H225	Highly flammable liquid and vapour.	
-	H319 H336	Causes serious eye irritation. May cause drowsiness or dizziness.	
Signature	N Dobson		

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.