

Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

I	Product name	:	Assert Clean				
	UFI	:	JS65-SCJ3-300U-4W7U				
I	Product code	:	110547E				
	Use of the Substance/Mixture	:	Manual Warewashing Detergent				
Ş	Substance type:	:	Mixture				
			For professional users only.				
I	Product dilution information	:	No dilution information provided.				
1.2 F	1.2 Relevant identified uses of the substance or mixture and uses advised against						
I	Identified uses	:	Dishwash product. Manual process				
-	Recommended restrictions on use	:	Reserved for industrial and professional use.				
1.3 [1.3 Details of the supplier of the safety data sheet						
(Company	:	Ecolab Limited Forest Park Mullingar Industrial Estate, Mullingar Co. Westmeath Ireland +353 1 276 3500 infoireland@ecolab.com				

Ecolab Ltd. PO Box 11; Winnington Avenue Northwich, Cheshire, United Kingdom CW8 4DX +353 (0)1 276 3500 ccs@ecolab.com

1.4 Emergency telephone number

Poison Information Centre
telephone number:Poisons Information: For information or to report a poisoning
incident contact The National Poisons Information Centre (01
8092166)

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Version	:	1.2

Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling:

Special labelling of certain : Safety data sheet available on request. mixtures

2.3 Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]					
Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt	68891-38-3 500-234-8 01-2119488639-16	Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 3; H412 Serious eye damage/eye irritation Category 1 10 - 100 % Serious eye damage/eye irritation Category 2A > 5 - < 10 %	>= 3 - < 5					
For the full text of the H-Statements mentioned in this Section, see Section 16.								

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of eye contact	: Rinse with plenty of water.
In case of skin contact	: Rinse with plenty of water.
If swallowed	: Rinse mouth. Get medical attention if symptoms occur.
If inhaled	: Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed

Treatment : No specific measures identified.

Section: 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Not flammable or combustible.
Hazardous combustion products	 Depending on combustion properties, decomposition products may include following materials: Carbon oxides Sulphur oxides metal oxides

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Use personal protective equipment.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	:	Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

Environmental precautions		No s	special enviro	onmental	precautions r	equired.
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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.
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6.4 Reference to other sections

See Section 1 for emergency contact information. For personal protection see section 8. See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	:	Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section 8.			
Hygiene measures	:	Wash hands before breaks and immediately after handling the product.			
7.2 Conditions for safe storage, including any incompatibilities					
Requirements for storage areas and containers	:	Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.			

Storage temperature	: 0 °C to 40 °C	
otorago tomporataro		

7.3 Specific end uses

Specific use(s) : Dishwash product. Manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

DNEL				
Linear(C12-C14)alkanol,	: End Use: Workers			
ethoxylated, sulfated, sodium	Exposure routes: Inhalation			
salt	Potential health effects: Long-term systemic effects			
	Value: 175 mg/m3			
	End Use: Workers			
	Exposure routes: Dermal			
	Potential health effects: Long-term systemic effects			
	Value: 2750 mg/m3			
	End Use: Workers			
	Exposure routes: Dermal			
	Potential health effects: Long-term local effects			
	Value: 0.132 mg/m3			
	End Use: Consumers			
	Exposure routes: Inhalation			
	Potential health effects: Long-term systemic effects			
	Value: 52 mg/m3			
	End Use: Consumers			
	Exposure routes: Dermal			
	Potential health effects: Long-term systemic effects			
	Value: 1650 mg/m3			
	End Use: Consumers			
	Exposure routes: Dermal			
	Exposure reaces. Donnai			

Potential health effects: Long-term local effects Value: 0.079 mg/m3
End Use: Consumers Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 15 mg/m3

PNEC

Linear(C12-C14)alkanol,	:	Fresh water	
ethoxylated, sulfated, sodium		Value: 0.24 mg/l	
salt			
		Marine water	
		Value: 0.024 mg/l	
		Sewage treatment plant	
		Value: 10000 mg/l	
		Fresh water sediment	
		Value: 0.917 mg/kg	
		Markey of Provide	
		Marine sediment	
		Value: 0.092 mg/kg	
		0-1	
		Soil	
		Value: 7.5 mg/kg	

8.2 Exposure controls

Appropriate engineering controls					
Engineering measures	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.			
Individual protection measur	res				
Hygiene measures	:	Wash hands before breaks and immediately after handling the product.			
Eye/face protection (EN 166)	:	No special protective equipment required.			
Hand protection (EN 374)	:	No special protective equipment required.			
Skin and body protection (EN 14605)	:	No special protective equipment required.			
Respiratory protection (EN 143, 14387)	:	None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.			

Environmental exposure controls

General advice

: Consider the provision of containment around storage vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Dhysical state		liquid
Physical state	•	liquid
Colour	•	colourless
Odour	:	odourless
pH	:	5.0 - 6.0, 100 %
Particle characteristics		
Assessment	:	not applicable
Particle size	:	not applicable
Particle Size Distribution	:	not applicable
Dustiness	:	not applicable
Specific surface area	:	not applicable
Surface charge/Zeta potential	:	not applicable
Shape	:	not applicable
Crystallinity	:	not applicable
Surface treatment /Coatings	:	not applicable
Flash point	:	Not applicable.
Odour Threshold	:	Not applicable and/or not determined for the mixture
Melting point/freezing point	:	Not applicable and/or not determined for the mixture
Boiling point, initial boiling point and boiling range	:	Not applicable and/or not determined for the mixture
Evaporation rate	:	Not applicable and/or not determined for the mixture
Flammability	:	Not applicable and/or not determined for the mixture
Upper explosion limit	:	Not applicable and/or not determined for the mixture
Lower explosion limit	:	Not applicable and/or not determined for the mixture
Vapour pressure	:	Not applicable and/or not determined for the mixture
Relative vapour density	:	Not applicable and/or not determined for the mixture
Density and / or relative density	:	1.01 - 1.05
Water solubility	:	soluble
Solubility in other solvents	:	Not applicable and/or not determined for the mixture
Partition coefficient: n- octanol/water (log value)	:	Not applicable and/or not determined for the mixture
Auto-ignition temperature	:	Not applicable and/or not determined for the mixture
Thermal decomposition	:	Not applicable and/or not determined for the mixture
Viscosity, kinematic	:	111.851 mm2/s (40 °C)

Assert	Clean
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Explosive properties	:	Not applicable and/or not determined for the mixture
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Not applicable and/or not determined for the mixture

Section: 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Depending on combustion properties, decomposition products may include following materials: Carbon oxides Sulphur oxides metal oxides

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

		,
Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact
Product		
Acute oral toxicity	:	There is no data available for this product.
Acute inhalation toxicity	:	There is no data available for this product.
Acute dermal toxicity	:	There is no data available for this product.
Skin corrosion/irritation	:	There is no data available for this product.
Serious eye damage/eye irritation	:	There is no data available for this product.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Assert Clean	
Respiratory or skin sensitization	: There is no data available for this product.
Carcinogenicity	: There is no data available for this product.
Reproductive effects	: There is no data available for this product.
Germ cell mutagenicity	: There is no data available for this product.
Teratogenicity	: There is no data available for this product.
STOT - single exposure	: There is no data available for this product.
STOT - repeated exposure	: There is no data available for this product.
Aspiration toxicity	: There is no data available for this product.
Components	
Acute oral toxicity	: Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt LD50 rat: 3,350 mg/kg
Components	
Acute dermal toxicity	: Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt LD50 rat: 8,000 mg/kg
Potential Health Effects	
Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.
Experience with human exp	osure
Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.
11.2 Information on other hazar	ds
Further information	: no data available
Section: 12. ECOLOGICAL INFO	DRMATION
12.1 Toxicity	
Environmental Effects	: This product has no known ecotoxicological effects.

Product	
Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available
Components	
Toxicity to fish	: Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt96 h LC50 Danio rerio (zebra fish): 7.1 mg/l
Components	
Toxicity to daphnia and other aquatic invertebrates	: Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt48 h EC50 Daphnia magna (Water flea): 7.4 mg/l
Components	
Toxicity to algae	: Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt72 h EC50 Desmodesmus subspicatus (green algae): 27.7 mg/l

12.2 Persistence and degradability

Product

Biodegradability	: The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC
Components	

Biodegradability : Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium saltResult: Readily biodegradable.

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

12.7 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste.Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

Product	:	Diluted product can be flushed to sanitary sewer if regulations permit.
Contaminated packaging	:	Dispose of in accordance with local, state, and federal regulations.
Guidance for Waste Code selection	:	Organic wastes containing not dangerous substances with concentration >= 0.1%. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

: Not dangerous goods
: Not dangerous goods
: Not dangerous goods
: Not dangerous goods
: Not dangerous goods
: Not dangerous goods

Air transport (IATA)

14.1 UN number or ID number	: Not dangerous goods
14.2 UN proper shipping	: Not dangerous goods
name 14.3 Transport hazard	: Not dangerous goods
class(es)	
14.4 Packing group	: Not dangerous goods
14.5 Environmental hazards	: Not dangerous goods
14.6 Special precautions for user	: Not dangerous goods

Sea transport (IMDG/IMO)

14.1 UN number or ID : Not dangerous goods

number	. Not development and de
14.2 UN proper shipping name	: Not dangerous goods
14.3 Transport hazard class(es)	: Not dangerous goods
14.4 Packing group	: Not dangerous goods
14.5 Environmental hazards	: Not dangerous goods
14.6 Special precautions for	: Not dangerous goods
user	
14.7 Maritime transport in	: Not dangerous goods
bulk according to IMO	
instruments	

Section: 15. REGULATORY INFORMATION

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

according to Detergents : Regulation EC 648/2004	•	less than 5 %: Anionic surfactants, Amphoteric surfactants, Non- ionic surfactants Preservation agents: Sodium benzoate		
Seveso III: Directive : 2012/18/EU of the European Parliament and of the Council on the control of major- accident hazards involving dangerous substances.	:	Not applicable.		
Candidate List of Substances : of Very High Concern for Authorisation	•	Not applicable.		
National Regulations				
Take note of Dir 94/33/EC on the protection of young people at work.				
Other regulations	:	Safety, Health and Welfare at Work Act, 2005 European Communities (Classification, Packaging, Labelling and Notification of Dangerous Preparations) Regulations 1995. (S.I. 272 of 1995) as amended		

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out on the product.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Not a hazardous substance or mixture.	Calculation method

Full text of H-Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

Prepared by

: Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

Annex: Exposure Scenarios

Exposure Scenario: Dishwash product. Manual process

Life Cycle Stage

		0		
Assert Clean				
Product category	:	PC35	Washing and cleaning products (including solvent based products)	
Contributing scenario contr	rolliı	ng environm	nental exposure for:	
Environmental release category	:	ERC8a	Wide dispersive indoor use of processing aids in open systems	
Daily amount per site	:	7.5 kg		
Type of Sewage Treatment Plant	:	Municipal sewage treatment plant		
Contributing scenario controlling worker exposure for:				
Process category	:	PROC10	Roller application or brushing	
Exposure duration	:	480 min		
Operational conditions and risk management measures	:	Indoor		
		Local Exha	ust Ventilation is not required	
General ventilation		Ventilation	rate per hour 1	
Skin Protection	:	see section	n 8	
Respiratory Protection	:	see section	18	
Contributing scenario controlling worker exposure for:				
Process category	:	PROC8a	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non- dedicated facilities	
Exposure duration	:	60 min		
Operational conditions and risk management measures	:	Indoor		
		Local Exha	ust Ventilation is not required	
General ventilation		Ventilation rate per hour 1		
Skin Protection	:	see section 8		
Respiratory Protection	:	see section	18	

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