



## STARK HANDWASH LAUNDRY LIQUID

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

#### 1.1 Product identifier:

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

Liquid laundry detergent

#### 1.3 Details of the supplier of the Safety data sheet

Company: Drop Chemicals Ltd  
Address: Triq il-Birrerija  
Mriehel Industrial Estate  
BKR 3000  
MALTA  
Telephone: +356 2144 9293 / 2144 1803 / 2148 0488  
Fax: +356 2144 4704  
Email: [sds@dropchemicals.com.mt](mailto:sds@dropchemicals.com.mt)

#### 1.4. Emergency telephone number:

Drop Chemicals Ltd –Tel: +356 2144 9293 / 2144 1803 / 2148 0488 (Office Hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture:

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

Eye Irrit. 2

H319 Causes serious eye irritation.

#### 2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word: Warning

Hazard statement: H319 Causes serious eye irritation



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Precautionary statement: P101 If medical advice is needed, have container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear eye protection.  
 P305+P351 IF IN EYES: Rinse cautiously with water for several minutes.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

None if used properly

## SECTION 3: Composition/information on ingredients

### 3.1 Substances Mixture

### 3.2 Mixtures

#### Hazardous substances according to CLP (EC) No 1272/2008:

Hazardous substances CAS- No	EINECS	REACH-Reg No	Content	Classification
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	500-234-8	01-2119488639-16	>= 5-< 10%	Skin irritation 2; Dermal H315 Serious eye damage 1 H318 Chronic hazards to aquatic environment 3 H412
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	287-494-3	01-2119490234-40	>= 1-< 5%	Acute toxicity 4; Oral H302 Skin irritation 2 H315 Serious eye damage 1 H318 Chronic hazards to the aquatic environment 3 H412
Amides, C8-18 (even numbered) and C18- unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	931-329-6	01-2119490100-53	>= 1-< 5%	Skin irritation 2 H315 Serious eye damage 1 H318 Aquatic Toxicity 2 H411

For full text of the H-phrases indicated by codes, see section 16 (Other Information)



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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First aiders should wear protective equipment when assisting victim.

Move out of dangerous area. Never give anything by mouth to an unconscious person

- Inhalation:** Remove casualty to fresh air and keep warm at rest. If the person cannot be removed, ventilate the premises. OBTAIN MEDICAL ATTENTION. Loosen tight clothing such as collar, tie, belt or waistband.
- Skin Contact:** Rinse with water. Take off contaminated clothing, shoes or stockings.
- Eye Contact:** Wash immediately with water for at least 10 minutes. Seek medical attention if necessary.
- Ingestion:** If possible, do not induce vomiting. SEEK A MEDICAL EXAMINATION and present the safety data sheet. Never give anything by mouth to an unconscious person

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

- After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.
- After skin contact: Temporary irritation of the skin (redness, swelling, burning).
- After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).
- After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

#### 4.3. Indications of any immediate medical attention and special treatment needed

- After inhalation: No special action.
- After skin contact: No special action.
- After eye contact: No special action.
- After ingestion: Do not induce vomiting. Single administration of non-carbonated beverage (water or tea)
- After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

### SECTION 5: Fire fighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Water spray jet (if possible avoid full jet). Adapt the fire fighting measures to the environment conditions. Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

##### Extinguishing media which must not be used for safety reasons:

None

#### 5.2. Special hazards arising from the substance or mixture



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### Special hazards during fire Fighting:

None. Product is not flammable

### 5.3. Advice for fire fighters

Special protective equipment

In the event of fire, wear self-contained breathing apparatus

for fire-fighters:

No special equipment needed, but self-contained breathing apparatus recommended

General remarks:

Product is not explosive, not flammable and not auto-flammable. The product itself will not burn.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

If large amounts are released contact the fire service. Avoid contact with skin and eyes.

Ensure adequate ventilation.

Danger of slipping on spilled product.

### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

### 6.3. Methods and material for containment and cleaning up

Remove mechanically. Rinse away residue with plenty of water.

### 6.4. Reference to other sections

See advice in section 8

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

No special measures required if used properly.

#### Hygiene measures:

Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

Protective equipment only required in case of industrial use or for large packs (not for household packs)

### 7.2. Conditions for safe storage, including any incompatibilities

Store dry at between +5 and +40°C. Consider national regulations.

### 7.3. Specific end use(s)

Laundry Liquid detergent

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Work/Hygiene practices: Good personal hygiene practices should be used. Wash after any contact, before eating and at the end of



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the work period.

### 8.2. Exposure controls

Respiratory protection: Not required

Hand protection: For the contact with product protective gloves made from Nitril (material thickness > 0.1 mm, break through time >480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection: Wear tight fitting goggles.

Skin protection: Protective clothing against chemicals. Observe manufacturer's instructions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

The following data apply to the whole mixture.

Appearance	Liquid low viscosity green
Odour	green, citrus, floral
pH	8.2 – 9.2 (20°C 68°F); Conc.: 100 % product; Solvent: None)
Initial boiling point	Not applicable
Flash point	> 100 °C (> 212 °F)The product does not support combustion in any way.
Decomposition temperature	Not applicable
Vapour pressure	Not applicable
Density	1,045 -1055g/cm <sup>3</sup>
Bulk density	Not applicable
Viscosity	2500 - 3500 mPa.s (Brookfield; Instrument: LVD II+; 20 °C (68°F); speed of rotation: 20 min <sup>-1</sup> ; Spindle No:3; Conc.: 100 % product; Solvent: None)
Viscosity (kinematic)	Not applicable
Explosive properties	Not applicable
Solubility (qualitative)	Soluble in water



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Solidification temperature	Not applicable
Melting point	Not applicable
Flammability	Not applicable
Auto-ignition temperature	Not applicable
Explosive limits	Not applicable
Partition coefficient: n-octanol/water	Not applicable
Evaporation rate	Not applicable
Vapour density	Not applicable
Oxidising properties	Not applicable

### 9.2. Other information

Substance group relevant properties: Not Relevant (No Data Available)

Conductivity: Not Relevant (No Data Available)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None if used for intended purpose.

### 10.2 Chemical stability

Stable under normal conditions of temperature and pressure.

### 10.3 Possibility of hazardous reaction

No hazardous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Avoid heat and frost (Heat will enhance separation of product during storage)

### 10.5 Incompatible materials

None if used properly.

### 10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled according to specifications.



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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute oral toxicity:

Hazardous substances CAS- No	Value Type	Value	Route of application	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	LD50	>2.000-5.000 mg/kg	oral		rat	OECD 401
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	LD50	1350-1470 mg/kg	oral		rat	OECD 401
Amides, C8-18 (even numbered) and C18- unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	LD50	>2000 mg/kg	oral		rat	OECD 402

##### Acute dermal toxicity:

Hazardous substances CAS- No	Value Type	Value	Route of application	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	LD50	>2.000mg/kg	dermal		rat	OECD 402
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	LD50	>2.000mg/kg	dermal		rabbit	OECD 402
Amides, C8-18 (even numbered) and C18- unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	LD50	>2 g/kg	dermal		rabbit	OECD 402



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### Acute inhalative toxicity:

Hazardous substances CAS- No	Value Type	Value	Route of application	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3			inhalation			

### Skin corrosion/irritation:

The mixture was classified based on data of similar tested mixtures following the EU Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures, ECHA Guidance on the application of CLP criteria and A.I.S.E. recommendations. Relevant toxicological information on the substances listed under Section 3 is provided in the following.

The product has not to be classified as skin irritation based on experimental data of an OECD 439 Test with a similar mixture.

### Serious eye damage/irritation:

The mixture was classified based on data of similar tested mixtures following the EU Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures, ECHA Guidance on the application of CLP criteria and A.I.S.E. recommendations. Relevant toxicological information on the substances listed under Section 3 is provided in the following.

The product has to be classified as eye irritation category 2 based on experimental data of an OECD 438 Test with a similar mixture.

### Respiratory or skin sensitization:

Hazardous substances CAS- No	Result	Test type	Species	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	not sensitising	Guinea pig maximisa- tion test	Guinea pig	OECD 406
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	not sensitising		Guinea pig	OECD 406
Amides, C8-18 (even numbered) and C18- unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	Not sensitising	Guinea pig skin exposure	Guinea pig	OECD 402





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### Germ cell mutagenicity:

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	Negative	oral: gavage		mouse	OECD 475
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs., sodium salts 85536-14-7	Negative	In Vitro Bacteria			OECD 471
	Negative	In Vivo Mammalian- Human			OECD 474
Amides, C8-18 (even numbered) and C18- unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	Negative	In Vitro Bacteria			OECD 471
	Negative	In Vivo Mammalian- Human			OECD 474

### Repeated dose toxicity

Hazardous substances CAS-No.	Result Value	Route of application	Exposure time / Frequency of	Species	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	225 mg/kg	oral: gavage	90 days once daily, 5 times a week	rat	OECD 408
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs., sodium salts 85536-14-7	125 mg/kg	oral: gavage	one month daily	rat	

### Reproductive toxicity:

Hazardous substances CAS-No.	Result/ Classification	Species	Exposure time	Species	Method
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	350 mg/kg NOAEL F1 350 mg/kg NOAEL F2 350 mg/kg	three- generation study oral: feed	2y	rat	



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### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Toxicity (Fish):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	LC50	7,9 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
	NOEC	0,1 mg/l	Fish	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	NOEC	> 0,43 - 0,89 mg/l	Fish	28 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD 210 (fish early light stage toxicity test)
	LC50	1,67 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) DIN 38412-15
	NOEC	1 mg/l	Fish	28 d	Lepomis macrochirus	
Amides, C8-18 (even numbered) and C18-unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	LC50	2.4 mg/l	Fish	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	0.32 mg/l	Fish	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) & OECD 215 Fish Juvenile Growth Test

##### Toxicity (Daphnia):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	EC50	79 mg/l	Daphnia	24 h	Daphnia magna	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	EC50	2,9 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Amides, C8-18 (even numbered) and C18-unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	EC50	3.2 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	NOEC	0.07 mg/l	Daphnia	21d	Daphnia magna	OECD Guideline 211 (Daphnia Reproduction test)



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### Toxicity (Algae):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	EC50	2.6 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	EC50	2,9 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	
	NOEC	2.4 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	
Amides, C8-18 (even numbered) and C18-unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	EC50	18.6 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	EU M.C3 EU Method C3 Algal Inhibition test
	NOEC	2 mg/l	Algae	72 h		

### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result Value	Route of application	Degradability	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	readily biodegradable	aerobic	77 - 79 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	readily biodegradable	aerobic	85 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Amides, C8-18 (even numbered) and C18-unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	readily biodegradable - 28 days	aerobic	>60%	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

### 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	LogPow	BCF	Potential
Amides, C8-18 (even numbered) and C18-unsaturated., N,N-bis (hydroxyethyl) 68603-42-9	-	65.63	low



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### 12.4. Mobility in soil

Hazardous substances	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Alcohols, C12-14, ethoxylated, sulphates, sodium salts 68891-38-3	0,3				23 °C	OECD Guideline 107  (Partition Coefficient (n-octanol / water), Shake Flask Method)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts 85536-14-7	3,32					

### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or vPvB.

### 12.6. Other adverse effects

Other adverse effects of this product for the environment are not known to us.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product disposal:

Dispose of in compliance with local regulations .

Disposal of un-cleaned packages:

Only completely empty containers are to be disposed of as recoverable materials.

## SECTION 14: Transport information

- 14.1. UN number**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packaging group**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.



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- 14.6. **Special precautions for user**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not applicable

### SECTION 15: Regulatory information

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

Declaration of ingredients according to Detergent Regulation 648/2008/EC:

5-15%: anionic surfactants, non-ionic surfactants  
< 5% : soap, phosphonates  
Other ingredients: aqua, perfume, citronellol, butylphenyl methylpropional, geraniol, dye, preservatives (2-bromo-2-nitropropane-1,3-diol)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

Complete text of the relevant H phrases mentioned under heading 3:

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

#### Further information

The recommendations in this safety data sheet reflect the knowledge available to us on the date of going to print and do not therefore guarantee certain properties. They are intended to give you hints for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and waste disposal. This information cannot be transferred to other products. In those cases where the product mentioned in this safety data sheet is blended, mixed or processed with other materials or processed in any other way, the information contained in this safety data sheet cannot be related to the new material obtained in this way. Recipients of our product must take responsibility for observing existing laws and regulations.

#### Revision history:

This MSDS cancels and replaces any preceding release. It is the duty of the user to ensure that this information is appropriate and complete with respect to the above specific use intended.