

Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2010.

Compilation date: 21/08/17

1. IDENTIFICATION OF THE PRODUCT AND SUPPLIER

1.1 Product identifier TORNADO BIO LIQUID LAUNDRY

1.2 Use of Preparation Laundry Detergent.

1.3 Supplier details
RBR Supplies
13-15 James Watt Place
College Milton
East Kilbride
G74 5HG
Tel: 01355 244344
Fax: 01355 224433
sales@rbrsupplies.co.uk
www.rbrsupplies.co.uk

1.4 Emergency telephone number : Phone: + 44 (0)844 892 0111 (UK only)

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture according to the Regulation (EC) No 1272/2008 (CLP)

Danger: Serious Eye Dam, Cat 1; H318

Classification according to Directives 1999/45/EC and 67/548/EEC (CHIP)

Xi, Irritant to eyes

2.2 Label Elements in accordance with Regulation (EC) No 1272/2008 (CLP)

Signal word: Danger

Symbol:



Hazard statements: H318: Causes serious eye damage.

Precautionary statements:
P102: Keep out of reach of children.
P262: Do not get in eyes.
P305+351+338: 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 CENTRE or doctor.

Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2010.

Compilation date: 21/08/17

Contains: Alcohols C9-C11 ethoxylated, C8-C10-Alkyl Glucosides,
Sodium laureth sulphate, Sodium dodecylbenzene
sulphonate

In compliance with directives 67/548/EEC, 1999/45/EC (CHIP) and their amendments

Classification: Irritant

Hazard Symbol



Risk Phrases R36 Irritating to eyes.

Safety Phrases S2 Keep out of the reach of children.
S24/25 Avoid contact with eyes and skin.
S26 In case of contact with eyes, rinse immediately with plenty of
water and seek medical advice.

2.3 Other hazards Prolonged contact may cause minor degreasing of the skin.
Preparation is biodegradable and not classified as dangerous
for the environment.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures

Composition:

Ingredient	Cas No.	EC No.	Conc
Sodium dodecylbenzene sulphonate	68411-30-3	270-115-0	1-20%

Classification (EC 1272/2008)

Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

Classification (67/548/EEC)

Xi; R38, R41.

Ingredient	Cas no.	EC No.	Conc
Alkyl polyglucoside	68515-73-1	500-220-1	1-5%



Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2010.

Compilation date: 21/08/17

Classification (EC 1272/2008)

Eye Dam. 1 - H318

Classification (67/548/EEC)

Xi R41

Ingredient

Alcohol ethoxylate

Cas No.

68131-39-5

EC No.

500-195-7

Conc

1-5%

Classification (EC 1272/2008)

Act tox. Cat 4: H302

Ser. Eye Dam. Cat 1: H318

Classification (67/548/EEC)

Xn; R22 R41.

Ingredient

Sodium laureth sulphate

Cas No.

68891-38-3

EC No.

500-234-8

Conc

1-10%

Classification (EC 1272/2008)

Skin Irrit. 2 - H315

Eye Dam. 1 - H318

Classification (67/548/EEC)

Xi; R38, R41

4. FIRST AID MEASURES

4.1 Description of first aid measures

In the event of exposure by inhalation:

Move to fresh air. Immediate medical attention not required.

In the event of splashes or contact with the eyes:

Immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical advice immediately.

In the event of splashes or contact with the skin:

Remove contaminated clothing. Wash off skin with plenty of water, using soap if available.

In the event of swallowing:

Rinse mouth and throat and drink water to dilute. Seek medical attention if symptoms persist.

4.2 Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted. Product may cause discomfort if swallowed.



Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2017.

Compilation date: 21/08/15

Skin contact

Prolonged or excessively repeated skin contact may lead to irritation.

Eye contact

In the event of direct contact, may cause redness, pain, irritation and permanent damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Suitable methods of extinction

Water, dry chemical or carbon dioxide.

Unsuitable methods of extinction

None known.

5.2 Special hazards arising from the mixture

None known.

5.3 Advice for fire-fighters

Protective equipment for fire-fighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and procedures

Use protective equipment (See Section 8).

6.2 Environmental precautions

Avoid excessive release to the environment.

6.3 Methods and materials for containment and cleaning up

Clean by collection. Dispose of material in accordance with local or national regulations.

6.4 Reference to other sections

For personal protection, see Section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling



Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2017.

Compilation date: 21/08/15

Avoid contact with the eyes and skin.

7.2 Conditions for safe storage, including any incompatibilities

Store at moderate temperatures in a dry and well ventilated area. Keep in original container.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

See Product Information Sheet & Label for detailed use of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredient comments

No exposure limits noted for ingredient(s).

8.2 Exposure controls

Engineering measures

Not relevant.

Personal protection measures, such as personal protective equipment

Eye/face protection

Not required under normal conditions of use. Do not get in eyes. Handle with care. Ensure eye wash is to hand.

Hand protection

Not required under normal conditions of use.

Body protection

Avoid prolonged or frequent repeated skin contact especially with broken skin.

Respiratory protection

Respiratory protection not required.

Other Protection

Not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General information:

Physical state

Appearance

Liquid

Colour

Blue

5.laundry detergent

Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2017.

Compilation date: 21/08/15

Odour	Pleasant
Solubility	Soluble
pH	8.0 - 8.5
Melting point/freezing point:	>0 °C
Initial boiling point and boiling range:	>100 °C
Flash point:	No data available
Evaporation rate:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

9.2 Other information

None.

10. STABILITY AND REACTIVITY**10.1 Reactivity**

No specific reactivity hazards associated with this product.

10.2 Chemical stability

Product is stable under normal conditions of use.

10.3 Possibility of hazardous reactions

See Sections 10.1, 10.4 & 10.5.

10.4 Conditions to avoid

Avoid temperatures below 0°C and above 45°C.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

None anticipated.

11. TOXICOLOGICAL**11.1 Information on toxicological effects**

Skin corrosion/skin irritation:



Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2010.

Compilation date: 21/08/17

May cause slight irritation to the skin in the event of prolonged contact.

Serious damage to eyes/eye irritation:

Potential to cause serious damage to the eyes. May cause irritation, redness and damage to the cornea.

Respiratory or skin sensitization:

Not anticipated.

Acute oral toxicity data (where available) for components of this product are;

Sodium dodecyl benzene sulphate	Oral rat LD-50 > 1,0800mg/kg
Alkyl polyglucoside	Oral rat LD-50 > 5,000mg/kg
Sodium laureth sulphate	Oral rat LD-50 > 2,000mg/kg
Alcohol ethoxylate	LD50 >300 - <=2000 mg/kg

12. ECOLOGICAL INFORMATION

12.1 Toxicity

We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for this product.

Eco-toxicity data (where available) for components of this product are;

Sodium dodecyl benzene sulphate	CL50 (fish) 1.67 mg/l, CE50 (daphnia) 2.4 mg/l
Alkyl polyglucoside	LD50 (fish) > 558 mg/l
Sodium laureth sulphate	LD50 (fish) 7.1 mg/L
Alcohol ethoxylate	Fish LL/EL/IL50 1-10 mg/l Aquatic Invertebrates LL/EL/IL50 1-10 mg/l Algae LL/EL/IL50 1-10 mg/l Microorganisms Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l

12.2 Persistence and degradability

Readily biodegradable. The surfactants in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3 Bio-accumulative potential

No appreciable bioaccumulation potential is to be expected due to high water solubility.

12.4 Mobility in soil

This preparation has high water solubility. Therefore it is likely to distribute predominantly to the aqueous environment.

12.5 Results of PBT and vPvB assessment



Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2010.

Compilation date: 21/08/17

This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Waste:

Dispose of by incineration, landfill or to drain in accordance with local regulations.

Soiled packaging:

Rinse container and consign empty container to normal waste.

14. TRANSPORT INFORMATION

General Not classified as hazardous for transport.

14.1 UN Number Not applicable/Non-hazardous

14.2 UN proper shipping name Not applicable/Non-hazardous

14.3 Transport Hazard class(es) Not applicable/Non-hazardous

Land
Inland Waterway Transport
Sea
Air

14.4 Packing group Not applicable/Non-hazardous

14.5 Environmental hazards Not classified as hazardous to the environment

14.6 Special Precautions for user None

15. REGULATORY INFORMATION

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

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010, which amends Regulation (EC) No 1907/2006.

The product is classified under CLP Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.



Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2010.

Compilation date: 21/08/17

Ingredients are listed with classification under both CHIP - Directive 67/548/EEC - classification, packaging & labelling of dangerous substances & GHS/CLP Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

15.2 Chemical safety assessment

Not applicable - this product is a mixture.

16. OTHER INFORMATION

Information Sources

Material Safety Data Sheets from raw material manufacturers.

CLP Classification - List of harmonised classification and labelling of hazardous substances.

CHIP Classification - List of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC.

Date: 20/08/2015

Comments

The Risk Phrases/Hazard Statements listed below relate to the raw materials (ingredients) in the product (as listed in Section 3) and NOT the product itself. For the Product Hazard Classification refer to Section 2.

Risk Phrases in Full

R22 Harmful if swallowed

R38 Irritating to skin

R41 Risk of serious damage to eyes

Hazard Statements in Full

H302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

H412 Harmful to aquatic life with long lasting effects.

Legal disclaimer:

The information provided is to the best of our knowledge correct and accurate. However, all data instructions and suggestions should be used only for guidance purposes. This company shall not be held liable for any damage resulting from handling or contact with the above product.