Material Safety Data Sheet

TRI-STAR TURBO BOOST



1. Produ	ct and company identification	
Trade name of pr Product use	oduct : TRI-STAR TURBO BOOST : Laundry detergent	
	• •	
Product anution	information : Up to 10 oz/50 gal or 1.56 mL/L in water	
Supplier's information : Ecolab Inc. Institutional Division 370 N. Wabasha Street St. Paul, MN 55102 1-800-352-5326		
Code	: 904839-01	
Date of issue	: 06-October-2010 EMERGENCY HEALTH INFORMATION: Outside United States and Canada CALL 1-65	
2. Hazaro	ds identification	
	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Liquid.
Emergency overview	: WARNING!	CAUTION !
	CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE SKIN IRRITATION. COMBUSTIBLE LIQUID AND VAPOR.	No specific hazard.
	Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.	No specific hazard.
Potential acute h	ealth effects	
	Product AS SOLD	Product AT USE DILUTION
Eyes	: Irritating to eyes.	No known significant effects or critical hazards.
Skin	: Moderately irritating to the skin. May cause sensitization by skin contact.	No known significant effects or critical hazards.
Inhalation	: Slightly irritating to the respiratory system.	No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.	No known significant effects or critical hazards.

See toxicological information (section 11)

3. Composition/information on ingredients

Product AS SOLD		
Name	<u>CAS number</u>	<u>% by weight</u>
Limonene	5989-27-5	>50
alcohols, c12-15, ethoxylated	68131-39-5	5 - 20
alcohols, c12-18, ethoxylated	68213-23-0	5 - 20
benzenesulfonic acid, decyl(sulfophenoxy)-, disodium salt	36445-71-3	1 - 5

3. Composition/information on ingredients

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	 In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists. 	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact		No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD	
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides
Fire-fighting media and instructions	: Use dry chemical, CO ₂ , water spray (fog) or foam.
	Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

	Droduct AC COLD	
Personal	Product AS SOLDUse personal protective equipment as required.	Product AT USE DILUTION Use personal protective equipment as
precautions		required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	: Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Wash thoroughly after handling.	Wash thoroughly after handling.
Storage	: Keep out of reach of children. Store in a segregated and approved area. Keep container in a cool, well- ventilated area. Store in a closed container. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).	Keep out of reach of children.
	Do not store above the following temperature: 40°C	

8. Exposure controls/personal protection

		Product AS SOLD		Product AT USE DILUTION
Engineering measures	:	Use only with adequate ventila generate dust, fumes, gas, va enclosures, local exhaust veni engineering controls to keep v airborne contaminants below a statutory limits. The engineer keep gas, vapor or dust conce lower explosive limits.	por or mist, use process tilation or other worker exposure to any recommended or ing controls also need to	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protecti	or	<u>1</u>		
Eyes	:	Safety eyewear should be use likelihood of exposure.		No protective equipment is needed under normal use conditions.
Hands	:	Use chemical-resistant, imper		No protective equipment is needed under normal use conditions.
Skin	:	Use suitable protective equipr		No protective equipment is needed under normal use conditions.
Respiratory	:	No special protection is requir	red.	No special protection is required.
Ingredient			Exposure limits	

Limonene AIHA WEEL (United States, 1/2007). TWA: 30 ppm 8 hour(s).	ingredient	Exposure limits
	Limonene	

9. Physical and chemical properties

	Product AS SOLD	I
Physical state	: Liquid.	I
Flash point	: 50.5556 °C (Open cup)	2
Color	: Yellow. [Light]	(
Odor	: citrus	¢
рН	: 4.5 to 6.5 [Conc. (% w/w): 100%]	ļ
Boiling/condensation point	: >100°C (>212°F)	1
Relative density	: 0.87 to 0.91	
Solubility	: Partially soluble in the following materials: cold water and hot water.	

Product AT USE DILUTION
Liquid.
> 100°C
Colorless.
citrus
5 to 7

10. Stability and reactivity

Product AS SOLD	
Stability	 The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Potential acute health effects

	Product AS SOLD	Product AT USE DILUTION
Eyes	: Irritating to eyes.	No known significant effects or critical hazards.
Skin	: Moderately irritating to the skin. May cause sensitization by skin contact.	No known significant effects or critical hazards.
Inhalation	: Slightly irritating to the respiratory system.	No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.	No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity

: Not reported

13. Disposal considerations

	Product AS SOLD	Product AT USE DILUTION
Waste disposal		Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

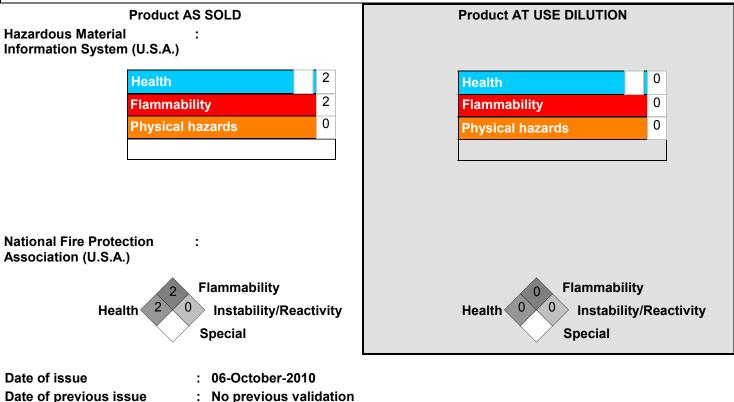
Product AS SOLD IMO/IMDG Classification	
UN number	UN1993
Proper shipping name	Flammable liquid, n.o.s., (d-Limonene), Marine pollutant
Class	3
Packing group	111
See shipping documents for sp	pecific transportation information.
Product AT USE DILUTION	

Not intended for transport.

15. Regulatory information

Product AS SOLD Product AT USE DILUTION HCS : Combustible liquid Not regulated. Classification Irritating material Sensitizing material Product AS SOLD **U.S. Federal regulations** TSCA 8(b) inventory : All components are listed or exempted. SARA 302/304/311/312 extremely hazardous substances: No listed substance SARA 302/304 emergency planning and notification: No listed substance **SARA 313** Product name CAS number **Concentration** : No listed substance Form R - Reporting requirements California Prop. 65 : No listed substance

16. Other information



1-800-352-5326 ✓ Indicates information that has changed from previously issued version.

: Regulatory Affairs

Notice to reader

Responsible name

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.