

Material Safety Data Sheet

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Version 1.1

According to 91/155/EEC

1 Product and Company Information

Product Name	RunBlue Antioxidant (NXA30010/NXA30001)
Manufacturer	Expedeon Ltd, Unit 1A, Button End, Harston, Cambridgeshire. CB22 7GX
Technical Phone	+44 1223 873364
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2 Composition/Information on ingredients

Preparation					
Ingredient Name	CAS No	%	EC No	Symbol	R-Phrases
Sodium bisulfite	7681-57-4	0.002 – 0.5	231-673-0	Xn	R 22/31/41

3 Hazards identification

Potential Health Effects:

EMERGENCY OVERVIEW

CAUTION!

MAY BE IRRITATING TO THE SKIN, EYES, AND UPPER RESPIRATORY TRACT.

MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.

Eye: IRRITANT

Risk of serious damage to eyes.

Skin: IRRITANT

Can cause moderate skin irritation, reddening and inflammation. Not likely to cause acute or permanent damage.

Inhalation: IRRITANT

Can cause moderate respiratory irritation.

Ingestion:

Harmful if swallowed.

Special Toxic Effects

Contact with acids liberates toxic gas.

4 First Aid Measures

After inhalation	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
After skin contact	Wash with soap and water under a drench shower. Remove contaminated clothing, launder immediately and discard contaminated leather goods. Get medical attention immediately.
After eye contact	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
After ingestion	If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention.
Note to Physician	Treat symptomatically.

5 Fire Fighting Measures

Flashpoint: ND Lower Flammable Limit %: ND Upper Flammable Limit %: ND Autoignition Temperature: ND
<u>Extinguishing Media:</u> Use extinguisher media appropriate for surrounding fire.
<u>Firefighting Techniques / Equipment:</u> As in any fire, wear self-contained breathing apparatus pressure-demand (MHSA/NIOSH) approved or equivalent) and full protective gear to prevent contact with skin and eyes. . Evacuate the area and fight fire from a safe distance.
<u>Hazardous Combustion Products:</u> EMITs TOXIC FUMES UNDER FIRE CONDITIONS.

6 Accidental Release Measures

Accidental releases may be subject to special reporting requirements and other regulatory mandates. Refer to section 8 for personal protection equipment recommendations.

Spill Cleanup:

Exposure to the spilled material may be irritating. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

7 Handling and Storage

Handling	DO NOT GET IN EYES, ON SKIN OR CLOTHING. Wash hands thoroughly before eating, drinking or smoking.
Storage	Store at ambient pressure. Store in a cool location. Isolate from incompatible materials and conditions. Keep container(s) closed. The material is suitable for most

general chemical storage areas, including refrigerators, but not to be stored with food.

8 Exposure Controls / Personal protection

Additional information about design of technical facilities	No special exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure.
General hygiene measures	Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.
Personal protective equipment	The usual precautionary measure are to be adhered to when handling chemicals
Protection of the hands	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work. Have a safety shower available.
Material of gloves	The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer
Eye protection	An eye wash station must be available where this product is used. Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.
Other	Wear protective clothing e.g. laboratory coat

9 Physical and Chemical Properties

General information:	
Form	Liquid
Colour	Transparent (at room temperature)
Odour	Odourless
Change in condition:	
Melting point/range	N/A
Boiling point/range	N/A
Autoignition temperature	N/A
Explosion limits	N/A
Explosive properties	N/A
Flammability	N/A
Flash point	N/A
Oxidizing properties	N/A
Partitioning Coefficient	N/A
pH-value at 22 C	7.6-8.4
SG / Density	N/A
Solubility in/miscibility with water	N/A
Vapour density	N/A
Vapour pressure	N/A
Viscosity	N/A

10 Stability and Reactivity

Stability	Stable under normal conditions of use. Incompatible with strong oxidizers. <u>Hazardous Decomposition Products:</u> Nitrogen oxides, Carbon dioxide. Carbon monoxide. <u>Hazardous Polymerization:</u> Will not occur.
Reactivity	Strong acids, Strong oxidizing agents.
Hazardous Polymerisation	Will not occur
Hazardous Decomposition	Sulfur oxides.

11 Toxicological information

FOLLOWING DATA FOR SODIUM BISULFITE:
CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED. FOLLOW GOOD LABORATORY PRACTICES WHEN HANDLING.

Routes of Exposure

Inhalation, ingestion, skin and eye contact.

LD50

REGISTRY OF THE TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)

RTECS NUMBER: UX8225000

The in rats is = 2,000 mg/kg.

oral LD50 Intravenous LD50 - rat = 115 mg/kg.

Sensitisation

Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach pains, vomiting, diarrhea. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Exposure can cause: Coughing, chest pains, difficulty in breathing.

Route of Exposure

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

CONDITIONS AGGRAVATED BY EXPOSURE

Warning: certain individuals with preexisting respiratory conditions such as asthma may experience hypersensitivity to

sulfites and sulfur dioxide. The symptoms include bronchoconstriction, bronchospasm, gastrointestinal disturbances, flushing, hypotension, tingling sensation, urticaria/angioedema, and shock

Carcinogenicity

IARC CARCINOGEN LIST

Rating: Group 3

CHRONIC EXPOSURE - MUTAGEN

Mutation test: Histidine reversion (Ames)

Hamster

180 UG/L

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Cell Type: ovary

Cytogenetic analysis

Hamster

200 UG/L

Cell Type: ovary

Sister chromatid exchange

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat

Dose: 20 GM/KG

Route of Application: Oral

Exposure Time: (MULTIGENERATIONS)

Result: Effects on Newborn: Stillbirth.

Species: Rat

Dose: 40 GM/KG

Route of Application: Oral

Exposure Time: (MULTIGENERATIONS)

Result: Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

12 Ecological information

Test Type: IC50 Algae

Species: Scenedesmus subspicatus

Time: 72 h

Value: 48 mg/l

Test Type: EC50 Daphnia

Species: Daphnia magna

Time: 24 h

Value: 89 mg/l

Test Type: LC50 Fish

Species: Onchorhynchus mykiss (Rainbow trout)

Time: 96 h

Value: 150.0 - 220.0 mg/l

13 Disposal considerations

Recommendation for product

Contact a licensed professional waste disposal service to

dispose of this material in accordance with local and national official environmental regulations

14 Transport information

Land transport	
RID/ADR class	Non-hazardous for road transport.
Maritime transport	
IMDG class	Non-hazardous for sea transport.
Air transport	
ICAO/IATA class	Non-hazardous for air transport.

15 Regulatory information

Classification and labelling according to EU directives:

 Indication of danger: Xn (Harmful)

R 22/31/41 Harmful if swallowed. Contact with acids liberates toxic gas.
Risk of serious damage to eyes.

S26/39/46 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection. If swallowed, seek medical advice immediately and show this container or label

16 Other information

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Expedeon Ltd shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or delivery note for additional terms and conditions of sale.

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