



SAFETY DATA SHEET

PART No. TR212

1. IDENTIFICATION OF THE PRODUCT

PRODUCT NAME: TR212 AEROSOL BUFFER 400ML
PRODUCT CODE: TR212
SUPPLIER: Autogem Invicta Ltd.
Autogem House
Abbey Road,
Park Royal
London NW10 7GJ
TEL: 00 44 (0) 208 838 0910
E-mail: sales@autogem.co.uk

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical characterization: (preparation)

Preparation in aliphatic hydrocarbons

Ingredient	Composition (%)	Maximum Exposure Limits	Occupational Exposure Standards
Butane CAS No - 106-97-8	10-30		15 min - 750.00 ppm 15 min - 1,810.00 mg/m3 8 hour - 600.00 ppm 8 hour - 1,450.00 mg/m3
Cyclohexane CAS No - 110-82-7	1-4		15 min - 300.00 ppm 15 min - 1,050.00 mg/m3 8 hour - 100.00 ppm 8 hour - 350.00 mg/m3
Propane - Asphyxiant Xylene, o-,m-,p- or mixed isomers CAS No - 1330-20-7	10-30 30-50		15 min - 150.00 ppm 15 min - 662.00 mg/m3 8 hour - 100.00 ppm 8 hour - 441.00 mg/m3

3. HAZARDS IDENTIFICATION:

Means of entering the body:	Hazard category: Inhalation: Yes	Skin/eye:
Swallowed:	Injected: Yes	Yes No
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Exposure risk: THIS IS AN AEROSOL PRODUCT - USE ONLY IN WELL VENTILATED AREAS. The contents are FLAMMABLE and maybe HARMFUL by deliberate prolonged inhalation or ingestion. Hydrocarbon propellant is an asphyxiant if there is insufficient ventilation. This would constitute abuse of the product. ALWAYS WASH HANDS AFTER USE. Repeated exposure may cause skin dryness or cracking. KEEP IN A SAFE PLACE AWAY FROM CHILDREN. FLAMMABLE - pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 degrees C. Do not spray onto a naked flame or any incandescent material, hot surface or unprotected electrical equipment. DO NOT BREATHE SPRAY MIST. Vapours may cause drowsiness and dizziness. DO NOT SPRAY NEAR EYES. Irritating to eyes. ALWAYS READ CONTAINER WARNINGS.

4. FIRST AID MEASURES:

INHALATION: Asphyxiation by butane will precede any toxicological effects of the active elements. Remove the patient to fresh air and treat symptomatically.

SKIN CONTACT: Wash with soap and water. Mild irritation may occur. Repeated contact may cause skin dryness and cracking.

EYE CONTACT: NEVER USE AEROSOLS NEAR EYES/MUCOUS MEMBRANES. Flush with copious quantities of water. Seek medical advice. Product is classified as irritating to eyes.

INGESTION: Unlikely. May cause nausea and discomfort. Carry out a gastric lavage to reduce discomfort. The contents tend to be absorbed by the body with no significant effects, particularly in these concentrations. Treat symptomatically. Seek medical advice and show the container.

5. FIRE FIGHTING MEASURES:

Fire risk: Pressurised aerosols should not be exposed to temperatures exceeding 50 degrees C. Above this container may explode and the resultant flammable mixture will burn to produce Co2. Fire fighting procedures: Use water to cool undamaged stock only. Avoid contamination of the water courses where damaged stock is leaking. For larger fires use foam, water fog or spray, avoiding contamination. POSITIVE PRESSURE BREATHING APPARATUS SHOULD BE USED.

Extinguishing media: CO2, Dry powder, Foam, Sand.

6. ACCIDENTAL RELEASE MEASURES:

INITIAL SPILLAGE WOULD BE FLAMMABLE: Spillage is unlikely in large quantities with an aerosol product. Keep damaged containers away from sources of ignition and in well ventilated areas.

ENVIRONMENT: In the concentrations within 1-1000 cans the components would not present an environmental hazard as most of the product would quickly evaporate, leaving only the residue.



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CLEANING:

In small quantities any liquid should be absorbed into a suitable media, such as sand and disposed of safely. The residue should be washed away with soapy water.

7. HANDLING AND STORAGE:

HANDLING:

Handle carefully. In general good handling aerosols should not be considered as hazardous.

STORAGE:

Always store aerosols away from sources of heat, including direct sunlight and in dry conditions. Avoid extremes of temperature and moisture. A stable, cool, dry ambient environment is most suitable. Avoid contamination with other products.

Container: Original –AEROSOL

Storage temp (°C): Ambient

Max storage temp (°C): 50

Where stored: Out of direct sunlight.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Supplier recommends 600ppm total hydrocarbon based on composition. As with all aerosols, the product should only be used in well ventilated areas, but responsible use is not potentially harmful. **RESPIRATORY PROTECTION:** If ventilation is not possible, then suitable respiratory protection is essential if there is a risk of solvent vapour concentrations. Use organic/inorganic vapour filters. Vapours may cause drowsiness or dizziness.

HAND PROTECTION:

Repeated exposure may cause skin cracking or dryness, gloves may be required.

EYE PROTECTION:

AVOID SPRAYING NEAR EYES. Irritating to eyes. If there is a risk of eye contact wear glasses, goggles or face-shield.

SKIN PROTECTION:

Repeated exposure may cause skin cracking and dryness, covering of exposed skin may be required.



CHEMICAL RESISTANT GLOVES



PROTECTIVE GOOGLES



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9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance & odour: Details apply to liquid phase of product only: Clear liquid with perfume odour.

Flash point (°C) :	<50
Boiling point (°C) :	<60
Melting point (°C) :	>-20
Solubility:	Insoluble in water
pH value:	N/A

10. STABILITY AND REACTIVITY:

The container is inherently stable under instructed conditions for a reasonable period of time (24-36 months). AVOID extremes of temperature, including direct sunlight and extreme freezing. Avoid exposure to moisture, which may cause container deterioration and pH, where acidity may damage container integrity. Avoid sudden impacts, which may damage container integrity. Avoid contact with water, acids, and high temperatures.

11. TOXICOLOGICAL INFORMATION:

THIS IS DESIGNED FOR EXTERNAL USE ONLY. Essentially, when used in this aerosol form, there are no potential toxic effects. The data is as follows: ALIPHATIC HYDROCARBON - no data available on the product itself BUTANE/PROPANE the Occupational Exposure Standard is 600ppm (1430mgm) Used correctly in aerosol form, all components can be considered to have a low order of toxicity (LD50 oral rat 500mg/kg, skin 3000mg/kg). Deliberate inhalation may cause severe pulmonary and breathing difficulty, dizziness, drowsiness (narcosis) and headaches (but this is unlikely in normal usage), and would constitute abuse. Skin and eye irritation may result from continued exposure to vapours when used in areas of poor ventilation, or when working in close proximity to the spray for prolonged periods, and suitable steps should be taken to avoid such conditions.

12. ECOLOGICAL INFORMATION:

This relates to the contents only, see Disposal. The product will evaporate quickly to the air. A colourless liquid, easily absorbed, will evaporate quickly. Mobility will be relatively fast Degradation will be relatively slow though ultimately almost complete. Accumulation is unlikely once physical breakdown commences. Short and Long Term effects should not be considered significant. Very short term damage to aquatic and soil organisms may occur in large spillage (1000+ containers) though this should disperse quickly (especially if absorbent material is used). No effects on plants or animals are indicated.

13. DISPOSAL CONSIDERATIONS:



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The container should be totally discharged and disposed of as hazardous waste. SEE CONTAINER WARNINGS.
I.e. do not puncture or incinerate/burn, even after use. Dried material is non-hazardous

14. TRANSPORT INFORMATION:

UN NUMBER: UN1950
IMDG page: 2120
HAZARD CLASS: 2.1

For Sea Transport UK TRANSPORT DESCRIPTION: FLAMMABLE AEROSOLS (capacity less than 1 litre).
LIMITED QUANTITIES UK TRANSPORT CLASSIFICATION: MISCELLANEOUS GOODS SHIPPING NAME: AEROSOLS.

15. REGULATORY INFORMATION

Flammable: Keep out of reach of children. Protect from sunlight and do not expose to temperatures exceeding 50 degrees C. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material. (Aerosol safety phrases).

Risk/Safety Codes	Description
R12	Extremely flammable
R20/21	Harmful by inhalation and in contact with skin
R38	Irritating to skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R67	Vapours may cause drowsiness and dizziness
S16	Keep away from sources of ignition - No Smoking
S36/37	Wear suitable protective clothing and gloves
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S51	Use only in well ventilated areas
S53	Avoid exposure - obtain special instructions before use
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
S9	Keep container in a well ventilated place



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6. OTHER INFORMATION:

The information contained in this safety data sheet does not constitute the users own assessment of workplace risk as required by other health and safety legislation. The provisions of the Health and Safety at Work Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product in the workplace. This product should not be used for purposes other than those for which it is designed. The information contained in this safety data sheet is based on present knowledge and current national legislation and meets the requirements of the Chemicals (Hazard Information and Packaging) Regulations. It provides guidance on health, safety and environmental aspects of the product and should not be construed as a guarantee of technical performance or suitability for particular applications.