TAG Engineering LTD.

MATERIAL SAFETY DATA SHEET

DATE OF ISSUE: 15/07/2015
REVISION NUMBER: 2 US

Section 1: IDENTIFICATION OF THE MATERIAL & SUPPLIER

PRODUCT IDENTIFICATION: Imitation Launching Grenade for paintball and Airsoft - "Velum"
COMPANY: TAG Engineering Ltd
ADDRESS: Tambovskaya 11, 10-H, 192007 St.-Petersburg
TELEPHONE: +7 963 318 64 50
EMERGENCY TELEPHONE NUMBERS: +7(812) 9360314 or +7 963 318 64 50

Section 2: HAZARDS IDENTIFICATION

PRODUCT NAME: Gaming Device (Pyrotechnic) **OTHER NAME:** "Velum" - smoke projectile

HAZARD CLASSIFICATION: DANGEROUS GOODS, Non-hazardous substance as per (ГОСТ Р 51270-99)
PRODUCT CODE: ГД-2/ Velum **USE:** Audible Visual Effect gaming/training Device
UN NUMBER: 0432 **DANGEROUS GOODS CLASS AND SUB RISK:** 1.4
HAZCHEM CODE: E **POISONS SCHEDULE:** None Allocated
PACKING GROUP: S **SUBSIDIARY RISK:**
STABILITY & REACTIVITY: This product is stable and non-reactive.
Avoid transporting with strong acids or alkalies keep dry keep away from flame or excessive heat.
Hazardous Polymerization will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulphur and nitrogen gases produced in use.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS NUMBER	PROPORTION
Potassium chlorate	3811-04-9	MED
Ammonium chloride	12125-02-9	LOW
Lactose	63-42-3	LOW
Colophony	8050-09-7	HIGH
Chalk		VLOW
Red dye		VLOW

PROPORTION (% weight per weight):
VHIGH > 60, HIGH 30-60, MED 10 - 29, LOW 1 - 9, VLOW <1

TECHNICAL SPECIFICATIONS:

- Initiation: Shot
- Overall dimensions: 94×37.5mm
- Grenade weight: 29g.
- Acoustic emission: 16dB
- Smoke deploy interval: 30s.
- "Velum" load: Smoke compaund
- "Velum" Effect: Smoke screen
- Maximum velocity: 20m/s

Section 4: FIRST AID MEASURES

Eye: If chemical contacts the eyes immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.

Skin: If chemical contacts this skin, immediately wash the contaminated skin with water. If this chemical penetrates the clothing, immediately remove the clothing and wash the skin with water. If symptoms occur after washing, get medical attention immediately

Breath: If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

Swallow: If swallowed, get medical attention immediately.

Section 5: FIRE FIGHTING MEASURES

Provide access to fire extinguisher at all times. Extinguisher must comply with relevant classification.
HAZCHEM CODE: E **EXTIGUISHING MEDIA:** Water **SPECIFIC HAZARD:** Large volume of smoke

DO NOT USE POWDER OR CO_2 FIRE EXTINGUISHERS.
HAZARDS FROM COMBUSTION PRODUCTS: Hazardous Polymerization will not occur. Hazardous Decomposition Products: Oxides of sulfur and nitrogen gases produced in use

DO NOT FIGHT EXPLOSIVE FIRES.
CONSULT THE EMERGENCY PROCEEDURE GUIDE TRAVELLING WITH THIS PRODUCT FOR FIRE SITE SPECIFIC FIRE FIGHTING PROCEDURES AND EVACUATION DISTANCES.

Section 6: ACCIDENTAL RELEASE MEASURES

In case of spillage, dampen powders with water. Sweep up any powders using natural fibre brushes and non-ferrous dust pans. Do not use steel, or any material that could produce sparks or present a risk of static discharge.
Also please refer to the **Emergency Procedure Guide** supplied with the Shipping Document by the freighter. This will detail safety distances based upon the entire load on-site, providing the Net Explosive Quantity (kg) and Class/UN of the total product.

It will provide further safety measures relating to the total product.

Section 7: HANDLING & STORAGE

STORAGE: DO NOT make any repairs to the inside or outside of a magazine containing any explosive material.
ALWAYS be sure magazines are solidly built and securely locked, in accordance with federal regulations, to protect the explosive materials from weather, fire and theft.
Keep insides of magazines clean, dry, cool and well ventilated.

TRANSPORT: **Class 1.4S. UN Number 0432.** Transport as per Goods Code of hosting country. Keep dry.

NEVER ship explosive materials in any packaging except their original packaging or alternate approved packaging provided by the manufacturer.
Load and unload explosive materials carefully.

DOCUMENTATION: As per Goods Code of hosting country.

Clean up spills of explosive materials promptly if any. Create a containment zone until the hazard has been removed.

FIRE/EXPLOSION HAZARD:
NEVER:

1. Use the articles without special individual protection means for head and eyes.
2. Use the articles without hand protection means, particularly palms and fingers (tactical gloves fully protecting open skin areas)
3. Grab or attempt to throw away activated grenade (without safety pin and ring)
4. Use the article without assuring safety to health and property of people around.
5. Hold grenade in hand longer then required for throwing after pulling out the igniter ring.
6. Use the articles without reading of instructions.

INTENDENDED FOR SUPERVISED USE ONLY BY PERSONS OVER 18 YEARS OF AGE

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Not relevant in packaged form.

EXPOSURE STANDARDS:	Not relevant
ENGINEERING CONTROLS:	N/A
IN USE	THIS PRODUCT IS FOR OUTDOOR USE ONLY. INITIATION BY OPERATOR.
	THIS PRODUCT HAS NO MINIMUM SAFETY DISTANCE TO PERSONNEL.
	READ IN CONJUNCTION WITH THE ATTACHED MANUAL.

- It is not recommended to allow contact with skin or eyes.
- Do not breathe in large amounts of the substance.
- Do not swallow any amount of this substance.

Section 9: PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: Polyurithane Black cylinder with yellow, gray or white lable/head. Some models has metal ring and pin.

BOILING POINT / MELTING POINT:	N / A	FLASH POINT (C):	N / A
VAPOUR PRESSURE:	N / A	FLAMMABILITY LIMITS (%):	N / A
SPECIFIC GRAVITY:	N / A	SOLUBILITY IN WATER (g/L):	< 65%

Section 10: STABILITY & REACTIVITY

EXPOSURE STANDARDS: This product is stable and non reactive.
SHELF LIFE:

If stored in dry, cool conditions 5 years from manufacture date. The manufacture date is stamped on the manual instruction in the box.

NEVER use explosive materials that show any sign of deterioration.
NEVER expose explosive materials to extreme sources of heat or to open flame, UNLESS the manufacturer has recommended such materials or procedures for their use.

Section 11: TOXICOLOGICAL INFORMATION

Oral LD_{50} (Rats):	>5050 mg/kg body weight
Dermal LD_{50} (Rats):	>2020 mg/kg body weight
Inhalation @ 90% LC_{50} (Rats):	>5.49 mg/L air concentration
Skin Effects (Rabbits):	Slightly irritating
Eye Effects (Rabbits):	Minimal irritation in non-washed eyes

CARCINOGENICITY, TERATOGENICITY, MUTAGENICITY:
This product does not contain any ingredient designated by IARC, or NOHSC as a probable human carcinogen.
Do not eat or swallow. Ensure adequate ventilation.
ALWAYS remain clear of the detonation area If not using eyes protection equipment.
NEVER breathe dust or vapours from explosive materials.
AVOID holding subject in your hand while detonating.

Section 12: ECOLOGICAL INFORMATION

Dispose of all debris responsibly. Clean up surrounding area using a rake and collect any remaining debris.
Ecotoxicity: Raw materials are toxic to flora and fauna. Final product casing greatly reduces risk to the environment and wildlife.

Section 13: DISPOSAL CONSIDERATIONS

TO DISPOSE OF UNFIRED PYROTECHNIC PRODUCT CONTACT YOUR SUPPLIER.
Disposal of unfired product should only be carried out by a licensed field instructor.
Contact TAG Ingeneering on +(7) 963 318 64 50.
ALWAYS dispose of explosive materials by shipping them to an approved disposal agency. Packaging, marking, labelling and transporting must be in accordance with regulations. NEVER ship explosive materials in any packaging except their original packaging or alternate approved packaging provided by the manufacturer.
Special conditions and instructions may apply. Specific guidance should be obtained from the manufacturer.
NEVER leave explosive materials or packaging materials where children, unauthorized persons or accessible to livestock.
NEVER allow any packaging materials to be burned in a confined space or to be reused.

Section 14: TRANSPORT INFORMATION

UN number:	**0432**
UN Shipping name:	**Articles Pyrotechnic for Technical Uses**
Class:	**1.4S**
Dangerous Goods Packing Group:	**III**
Hazchem Code:	**E**

Further Precautions for user:
Ensure the correct documentation is present:-

- 1.4S Emergency Procedure Guide.
- Shipping Document as per Section 4 of the Australian Dangerous Goods Code.
- Transport as per Local Dangerous Goods Code. Keep Dry.

Section 15: REGULATORY INFORMATION

Check if It is any regulation in every hosting country that a license is required to purchase, store and use this product. Check if it is any requirement in every hosting country that notification be made to the Police, Fire services, Safety Authorities and in some cases Air Services, of any intended display using display pyrotechnics. Consult local Standards for further information.

WARNING: All explosive materials are dangerous and must be handled and used with care either by or under the direction of competent, experienced persons. All commercial explosive materials are designed to detonate when supplied with a sufficient amount of initiating energy. Explosive materials cannot differentiate between initiating energy purposely supplied or accidentally supplied. It is the responsibility of all persons who handle explosive materials to know and follow all approved safety procedures. This responsibility includes the necessity of being familiar with, and observing federal, state, and local rules and regulations governing explosive materials.
If after careful reading this MSDS, you have any questions or doubts as to how to use Imitational Airsoft/paintball grenades - DO NOT USE THEM - consult the manufacturer for additional information.

CONTACT POINT:	TAG Engineering Ltd.	
	Technical Manager	Butman Mark
	Telephone Number:	**+7 963 318 64 50**

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As the products performance and suitability depends on various factors, the purchasers of our products should determine for themselves whether the product is suitable for their particular use.