



## MATERIAL SAFETY DATA SHEET. Effective date: 17<sup>th</sup> December 2003

### 1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: "GROUNDED"<sup>®</sup> ADJ: O456  
COMPANY: Agrovista UK Ltd, Cambridge House, Nottingham Road, Stapleford, Nottingham NG9 8AB.  
EMERGENCY CONTACTS: Agrovista UK Ltd Tel: 0115 9390202  
Fax: 0115 9398031

For further medical advice for doctors contact the National Poisons Information Service  
Tel: 0870 600 6266

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

A liquid formulation containing 732 g/l refined paraffinic petroleum oil

### 3. HAZARD IDENTIFICATION

May cause long-term adverse effects in the aquatic environment.  
May cause mild skin and eye irritation.

### 4. FIRST AID MEASURES

Eyes: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Call doctor if eye irritation persists.  
Skin: Remove any contaminated clothing and wash underlying skin with soap and water. Call doctor if any skin irritation persists.  
Inhalation: Remove to fresh air and seek medical attention if irritation develops.  
Ingestion: Wash mouth with water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical advice immediately.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Water-fog, Foam, Powder or CO<sub>2</sub>.  
**Hazardous combustion products:** Toxic fumes (oxides of carbon and asphyxiants) may be evolved if exposed to heat or flame.  
**Protection of fire-fighters:** Avoid breathing smoke. Wear self-contained breathing apparatus and suitable protective clothing in fire conditions.  
**Additional information:** Keep containers cool by spraying with water.  
Can be made to burn, flash point greater than 93 °C.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear appropriate personal protective equipment and eye / face protection. (See Section 8).  
**Environmental precautions:** Do not wash into sewers or into any body of water. Advise Environment Agency / Scottish Environment Protection Agency if spillage has entered water course or drainage system.  
**Methods of cleaning up:** Soak up with sand or other non-combustible absorbent material, place in a container, label and remove as special waste.

### 7. HANDLING AND STORAGE

**Handling:** When using do not eat, drink or smoke. Avoid contact with skin or eyes. Wash hands and exposed skin before eating, drinking or smoking and after work.  
**Storage:** Store in a cool, dry, frost-free ventilated area. Keep in original container, tightly closed away from children, animals and all food products. Keep away from heat and sources of ignition.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Safety Precautions from Product Label:  
COMPLIANCE WITH ALL SAFETY PRECAUTIONS MARKED \* IS A LEGAL REQUIREMENT.

#### SAFETY PRECAUTIONS

##### OPERATOR PROTECTION

\* Engineering control of operator exposure must be used where reasonably practical in addition to the following personal protective equipment:  
\* WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.  
\* However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH CONCENTRATE from skin or eyes immediately.  
WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.  
WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of gloves.  
WHEN USING, DO NOT EAT, DRINK OR SMOKE.

##### ENVIRONMENTAL PROTECTION

THIS PRODUCT MUST NOT BE USED WITH ANY PESTICIDE TO BE APPLIED IN OR NEAR WATER.  
DO NOT CONTAMINATE surface waters or ditches with chemical or used container. Storage and Disposal  
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.  
KEEP OUT OF REACH OF CHILDREN.  
KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.  
RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.  
DO NOT RE-USE CONTAINER.  
PROTECT FROM FROST

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear blue liquid  
Odour: Mineral oil odour  
pH: 6.0 – 7.0 at 0.5% in distilled water  
Boiling point/range: 329°C to 443°C  
Melting point/range: > -12°C  
Flash point: 93°C  
Flammability: >354°C  
Autoignition temperature: 354°C (estimated)  
Explosive properties: Not determined  
Oxidizing properties: None noted  
Vapour pressure: 0.0001 mm HG  
Specific gravity: 0.882  
Solubility-water: Dispersible

## 10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal storage conditions.  
Conditions to avoid: Heat, sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

This health hazard assessment is based on a consideration of the composition of the product:

Acute oral LD50 (rats) > 5010mg/kg  
Acute dermal LD50 (rabbits) > 2020 mg/kg  
Skin irritation (rabbit) Classification: mildly irritating  
Eye irritation (rabbit) Classification: mildly irritating  
Sensitisation (guinea pig) Non-sensitising.  
Mutagenicity Not mutagenic  
Symptoms of poisoning: Skin - may cause a slight irritation after repeated or prolonged contact.  
Eyes - may cause mild irritation after direct contact.  
Ingestion - may cause nausea, abdominal discomfort, vomiting and diarrhoea.  
Inhalation - unlikely to cause harmful effects under normal conditions of handling and use.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity  
Toxicity to fish : LC<sub>50</sub> 96 hours Rainbow trout (Oncorhynchus mykiss)  
>1000mg/l  
Toxicity to daphnia : LC<sub>50</sub> 48 hours Water flea (Daphnia magna)  
>1000mg/l

Biodegradability : 39% (DOC decrease)

Do not contaminate surface waters or ditches with chemical or used container. Empty container, triple rinse adding washings to the spray tank. Do not re-use the container for any other purpose.

## 13. DISPOSAL CONSIDERATIONS

Product and contaminated waste: Dispose of product concentrate, dilute products and clean empty containers according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from The Stationary Office.

Do not re-use the container for any purpose.

Contact the Local Council Authority for advice on the disposal of pesticide waste, or ask an approved waste disposal contractor.

## 14. TRANSPORT INFORMATION

Packaging: 2.5 litre HDPE. 4 x 3.0 litre per cardboard outer.

Transport: **Land – road / railway**  
Proper shipping name: Adjuvant, spreader or sticker, liquid.  
ADR / RID class: Not regulated  
Packing group:  
**Sea**  
IMDG class – not regulated.  
**Air**  
Not regulated.

## 15. REGULATORY INFORMATION

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3.

This product is covered by the Control of Pesticides Regulations, 1986, and is labelled accordingly.

The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.

Hazard symbol: Not classified.

Risk phrases: R53: May cause long-term adverse effects in the aquatic environment

Safety phrases: S1: Keep out of reach of children.

S7: Keep container tightly closed.

S20/21: When using do not eat, drink or smoke.

S36/39 Wear suitable protective clothing and eye/face protection

S49: Keep only in original container.

## 16. OTHER INFORMATION

UN Number: -

CAS number: 64741-88-4 // 64741 - 89 - 5

## CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable for the purpose recommended. Products are supplied solely for the use and applications recommended subject to strict adherence to the label conditions of storage and use. Other uses, applications and deviations from label recommendations are solely at the users own risk. Since we cannot exercise control over storage or seasonal factors affecting weather conditions, growth stage, crop condition and the composition of tank mixtures; NO liability or warranty is expressed or implied concerning the safety of tank mixtures or their biological effects on crop safety.