

# SAFETY DATA SHEET

## White Anti-Reflect Spray : **Code KENR07W**

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name                      White Anti-Reflect Spray

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses                      PC14 Metal surface treatment products PC15 Non-metal surface treatment products

#### 1.3. Details of the supplier of the safety data sheet

Supplier                              Kenro Ltd  
Greenbridge Road  
Swindon  
Wiltshre  
SN3 3LH  
T+44 (0) 1793 615836  
[sales@kenro.co.uk](mailto:sales@kenro.co.uk)

#### 1.4. Emergency telephone number

Emergency telephone                      +44 (0)1793 615836 (Monday to Friday, 9am to 5pm)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture Classification (EC 1272/2008)

Physical hazards                      Aerosol 1 - H222, H229  
Health hazards                      Eye Irrit. 2 - H319 STOT SE 3 - H336  
Environmental hazards                      Not Classified

Human health                      Gas or vapour is harmful on prolonged exposure or in high concentrations. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

Environmental                      The product is not expected to be hazardous to the environment.

Physicochemical                      Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

#### 2.2. Label elements

Hazard pictograms



Signal word                      Danger

Hazard statements                      H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

## White Dulling Spray

Precautionary statements	<p>P102 Keep out of reach of children.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p>
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
Contains	ACETONE

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

DIMETHYL ETHER CAS number: 115-10-6	EC number: 204-065-8	REACH registration number: 012119472128-37-XXXX	60-100%
Classification Flam. Gas 1 - H220			
ACETONE CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 012119471330-49	30-60%
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336			
ETHANOL CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 012119457610-43	5-10%
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319			

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information	Move affected person to fresh air at once.
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## White Dulling Spray

Inhalation	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
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### 5.2. Special hazards arising from the substance or mixture

Specific hazards	Extremely flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure buildup.
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### 5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.
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### 6.2. Environmental precautions

Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.
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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion.
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### 6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray on a naked flame or any incandescent material.
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### 7.2. Conditions for safe storage, including any incompatibilities

## White Dulling Spray

Storage precautions                      Store in tightly-closed, original container in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

Specific end use(s)                      The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

Ingredient comments                      WEL = Workplace Exposure Limits

#### DIMETHYL ETHER (CAS: 115-10-6)

DNEL	Workers - Inhalation; Long term systemic effects: 1894 mg/m <sup>3</sup> Consumer - Inhalation; Long term systemic effects: 471 mg/m <sup>3</sup>
PNEC	- Fresh water; 0.155 mg/l - marine water; 0.016 mg/l - Water, Intermittent release; 1.549 mg/l - Water, STP; 160 mg/l - Sediment (Freshwater); 0.681 mg/l - Sediment (Marinewater); 0.069 mg/l - Soil; 0.045 mg/l

#### ETHANOL (CAS: 64-17-5)

Ingredient comments	WEL = Workplace Exposure Limits
DNEL	Industry - Inhalation; Short term : 1900 mg/m <sup>3</sup> Industry - Dermal; Long term : 343 mg/kg/day Industry - Inhalation; Long term : 950 mg/m <sup>3</sup> Consumer - Inhalation; Short term : 950 mg/m <sup>3</sup> Consumer - Dermal; Long term : 206 mg/kg/day Consumer - Inhalation; Long term : 114 mg/m <sup>3</sup> Consumer - Oral; Long term : 87 mg/kg/day
PNEC	- Fresh water; 0.96 mg/l - marine water; 0.79 mg/l - Sediment; 3.6 mg/kg - Soil; 0.62 mg/kg - STP; 580 mg/l - STP; 580 mg/l - Intermittent release; 2.75 mg/l - Sediment (Marinewater); 2.9 mg/kg - Soil; 0.63 mg/kg - ;

### 8.2. Exposure controls

Appropriate engineering    Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any controls occupational exposure limits for the product or ingredients.

Personal protection                      When using do not smoke.

Eye/face protection                      Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

## White Dulling Spray

Hand protection	Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin. Wash hands thoroughly after handling.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Clear.
Odour	Organic solvents.
Initial boiling point and range	-40 to -2°C @ 1013 hPa
Flash point	<-40°C
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.4% Upper flammable/explosive limit: 10.9%
Vapour pressure	ca. 590 to 1760 kPa @ 45°C
Vapour density	ca. 1.5 at 15°C
Auto-ignition temperature	410-580°C
Comments	Information given is applicable to the major ingredient.

#### 9.2. Other information

Other information	Not available.
Volatile organic compound	This product contains a maximum VOC content of 592 g/l.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity	Stable at normal ambient temperatures and when used as recommended.
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#### 10.2. Chemical stability

Stability	Avoid the following conditions: Heat, sparks, flames.
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#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Does not decompose when used and stored as recommended.
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#### 10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.
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#### 10.5. Incompatible materials

Materials to avoid	Keep away from oxidising materials, heat and flames.
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## White Dulling Spray

### 10.6. Hazardous decomposition products

Hazardous decomposition Does not decompose when used and stored as recommended. Thermal decomposition or products combustion products may include the following substances: Toxic and corrosive gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

General information	Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.
Inhalation	In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.
Skin contact	Irritating to skin.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Acute and chronic health hazards	Arrhythmia (deviation from normal heart beat). Irritating to skin. Vapours may cause headache, fatigue, dizziness and nausea.
Route of exposure	Inhalation
Target organs	Central nervous system Respiratory system, lungs
Medical symptoms	Skin irritation. Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

## SECTION 12: Ecological information

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

### 12.1. Toxicity

Toxicity Not available.

### 12.2. Persistence and degradability

Persistence and degradability Not available.

### 12.3. Bioaccumulative potential

Bioaccumulative potential Not available.

### 12.4. Mobility in soil

Mobility Not known.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not available.

### 12.6. Other adverse effects

Other adverse effects Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty.

## White Dulling Spray

Disposal methods                      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion.

### SECTION 14: Transport information

**General**                                      This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

#### 14.1. UN number

UN No. (ADR/RID)                      1950

UN No. (IMDG)                            1950

UN No. (ICAO)                            1950

UN No. (ADN)                              1950

#### 14.2. UN proper shipping name

Proper shipping name                      AEROSOLS  
(ADR/RID)

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

#### 14.3. Transport hazard class(es)

ADR/RID class                              2.1

ADR/RID classification code            5F

ADR/RID label                              2.1

IMDG class                                   2.1

ICAO class/division                      2.1

ADN class                                    2.1

Transport labels



#### 14.4. Packing group

ADR/RID packing group                      None

IMDG packing group                        None

ICAO packing group                        None

ADN packing group                        None

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

#### 14.6. Special precautions for user

EmS    F-D, S-U

## White Dulling Spray

ADR transport category            2  
 Tunnel restriction code            (D)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to        Not  
 applicable. Annex II of MARPOL 73/78 and  
 the IBC Code

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	EH40/2005 Workplace exposure limits. The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EU legislation	Commission Regulation (EU) No 2015/830 of 28 May 2015.
Guidance	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131. British Aerosol Manufacturers Code of Practice 7th. Edition 1999

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

Revision comments	Supplemental information added.
Revision date	09/12/2019
Revision	3
SDS number	20967
SDS status	Approved.
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.