SAFETY DATA SHEET
WINSOR & NEWTON ARTISTS' FIXATIVE (AEROSOL)

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME WINSOR & NEWTON ARTISTS' FIXATIVE (AEROSOL)

PRODUCT NO. 3033913

APPLICATION Fixing pastel, chalk, charcoal and pencil drawings.

2 HAZARDS IDENTIFICATION

Extremely flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Irritating to eyes.


PHYSICAL AND CHEMICAL HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification (67/548)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>200-662-2</td>
<td>67-64-1</td>
<td>30-60%</td>
<td>F; R11 Xi; R36 R66 R67</td>
</tr>
<tr>
<td>BUTANE</td>
<td>203-448-7</td>
<td>106-97-8</td>
<td>10-30%</td>
<td>F+; R12</td>
</tr>
<tr>
<td>ETHANOL</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td>10-30%</td>
<td>F; R11</td>
</tr>
<tr>
<td>METHANOL</td>
<td>200-659-6</td>
<td>67-56-1</td>
<td>&lt; 1%</td>
<td>F; R11 T; R23/24/25, R39/23/24/25</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION
NOTE! Keep affected person away from heat, sparks and flames! Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION
Immediately rinse mouth and provide fresh air. DO NOT INDUCE VOMITING! Get medical attention.

SKIN CONTACT
Wash the skin immediately with soap and water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

EYE CONTACT
Spray in the eyes: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES
Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS
Extremely flammable. Forms explosive mixtures with air. May travel considerable distance to source of ignition and flash back. Aerosol cans may explode in a fire.

SPECIFIC HAZARDS
Aerosol containers can explode when heated, due to excessive pressure build-up.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Avoid inhalation of vapours and aerosol spray.

ENVIRONMENTAL PRECAUTIONS
Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable absorbent material.
SPILL CLEAN UP METHODS
Wear necessary protective equipment.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS
Keep away from heat, sparks and open flame. Store in a cool and well-ventilated place. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Pressurised container: Must not be exposed to temperatures above 50°C.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>TWA - 8 hrs</th>
<th>STEL - 15 min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>OES</td>
<td>500 ppm</td>
<td>1210 mg/m³</td>
<td>1500 ppm 3620 mg/m³</td>
</tr>
<tr>
<td>BUTANE</td>
<td>OES</td>
<td>600 ppm</td>
<td>1450 mg/m³</td>
<td>750 ppm 1810 mg/m³</td>
</tr>
<tr>
<td>ETHANOL</td>
<td>OES</td>
<td>1000 ppm</td>
<td>1920 mg/m³</td>
<td></td>
</tr>
<tr>
<td>METHANOL</td>
<td>OES</td>
<td>200 ppm(Sk)</td>
<td>266 mg/m³(Sk)</td>
<td>250 ppm(Sk) 333 mg/m³(Sk)</td>
</tr>
</tbody>
</table>

INGREDIENT COMMENTS
OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES
Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT
In case of inadequate ventilation use suitable respirator.

HAND PROTECTION
Use suitable protective gloves if risk of skin contact.

EYE PROTECTION
Use eye protection. Wear approved chemical safety goggles where eye exposure is reasonably probable.

OTHER PROTECTION
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES
DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Use appropriate skin cream to prevent drying of skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE  Aerosol
ODOUR  Solvent.
PHYSICAL DATA COMMENTS  Information given concerns the major ingredient.
FLASH POINT (°C)  <40.
FLAMMABILITY LIMIT - LOWER(%)  1.8
FLAMMABILITY LIMIT - UPPER(%)  9.5

10 STABILITY AND REACTIVITY

STABILITY
Avoid: Heat, sparks, flames.

CONDITIONS TO AVOID
Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.
11 TOXICOLOGICAL INFORMATION

INHALATION
In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

SKIN CONTACT
Repeated exposure may cause skin dryness or cracking.

EYE CONTACT
Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting. May cause severe irritation to eyes.

ROUTE OF ENTRY
Inhalation.

TARGET ORGANS
Central nervous system. Respiratory system, lungs.

MEDICAL SYMPTOMS
Inhalation may cause: Headache. Dizziness. Stupor.

12 ECOLOGICAL INFORMATION

ECOTOXICITY
Not known.

MOBILITY
Highly volatile and will rapidly evaporate to the air

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION
Do not puncture or incinerate even when empty.

DISPOSAL METHODS
Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS
2

PROPER SHIPPING NAME
AEROSOLS, FLAMMABLE, NOS (Contains Acetone and Liquefied Petroleum Gases)

UN NO. ROAD
1950

ADR CLASS
Class 2.1: Flammable gases.

ADR LABEL NO.
3

RID CLASS NO.
2

IMDG CLASS
2.1

IMDG PACK GR.
N/A

MFAG
620

UN NO. AIR
1950

AIR CLASS
AIR PACK GR.

15 REGULATORY INFORMATION

LABELLING
WINSOR & NEWTON ARTISTS' FIXATIVE (AEROSOL)

RISK PHRASES

- R12: Extremely flammable.
- R36: Irritating to eyes.
- R66: Repeated exposure may cause skin dryness or cracking.
- R67: Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

- A1: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
- A2: Do not spray on a naked flame or any incandescent material.
- S2: Keep out of the reach of children.
- S9: Keep container in a well-ventilated place.
- S23: Do not breathe vapour/spray.
- S25: Avoid contact with eyes.
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37: Wear suitable gloves.
- S51: Use only in well-ventilated areas.
- S56: Dispose of this material and its container to hazardous or special waste collection point. Keep away from sources of ignition - No smoking.

EU DIRECTIVES


OTHER INFORMATION

DATE 2/11/2007

RISK PHRASES IN FULL

- R12: Extremely flammable.
- R11: Highly flammable.
- R36: Irritating to eyes.
- R66: Repeated exposure may cause skin dryness or cracking.
- R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
- R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R67: Vapours may cause drowsiness and dizziness.

DISCLAIMER

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.