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2.5

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

**Product identifier**

**Product code** ADE360  
**Product name** Orange  
**Product category** ADE Series SV Epoxy Screen Ink

**Other means of identification**

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended use** Printing operations

**Details of the supplier of the safety data sheet**

|                         |                            |
|-------------------------|----------------------------|
| UNITED STATES           | UNITED KINGDOM             |
| Nazdar Company          | Nazdar Limited             |
| 8501 Hedge Lane Terrace | Barton Road                |
| Shawnee, KS 66227       | Heaton Mersey              |
| Tel: +001-913-422-1888  | Stockport, England SK4 3EG |
| Tel: +001-800-677-4657  | Tel: +44 161 442 2111      |
| Fax: +001-913-422-2294  |                            |
| www.nazdar.com          |                            |

**Emergency telephone number**

USA: Chemtrec: +001-800-424-9300  
Outside USA: Chemtrec: +001-703-527-3887  
24 Hour Emergency Phone Number

**2. HAZARDS IDENTIFICATION**

**Classification**

|                                   |                     |
|-----------------------------------|---------------------|
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Skin sensitization                | Category 1 - (H317) |
| Flammable liquids                 | Category 3 - (H226) |

**Label elements**



**Signal Word**

Warning

**Hazard Statements**

H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H226 - Flammable liquid and vapor

**Precautionary Statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P233 - Keep container tightly closed

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P403 + P235 - Store in a well-ventilated place. Keep cool

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

#### **Hazards not otherwise classified (HNOC)**

Causes mild skin irritation.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Mixture**

| Component                           | CAS-No       | Weight % | Trade Secret | Note |
|-------------------------------------|--------------|----------|--------------|------|
| Resin                               | Trade Secret | 30 - 60  | *            |      |
| Dipropylene glycol monomethyl ether | 34590-94-8   | 10 - 30  | *            |      |
| Diacetone alcohol                   | 123-42-2     | 5 - 10   | *            |      |
| Propylene glycol monomethyl ether   | 107-98-2     | 5 - 10   | *            |      |
| 2-Butoxyethanol                     | 111-76-2     | 1 - 5    | *            |      |
| Additive                            | Trade Secret | < 0.5    | *            |      |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### **4. FIRST AID MEASURES**

#### **Description of first aid measures**

##### **General Advice**

Show this safety data sheet to the doctor in attendance.

##### **Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

##### **Skin Contact**

Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

##### **Inhalation**

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

##### **Ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

#### **Most important symptoms and effects, both acute and delayed**

None under normal use conditions.

#### **Indication of any immediate medical attention and special treatment needed**

##### **Notes to Physician**

Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### **Suitable Extinguishing Media**

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

**Methods and material for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

**Incompatible Products** Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure limits**

| Component   | ACGIH TLV                             |
|---|---------------------------------------|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA: 100 ppm<br>STEL: 150 ppm<br>Skin |
| Diacetone alcohol<br>123-42-2                     | TWA: 50 ppm                           |
| Propylene glycol monomethyl ether<br>107-98-2     | TWA: 50 ppm<br>STEL: 100 ppm          |
| 2-Butoxyethanol<br>111-76-2                       | TWA: 20 ppm                           |

| Component   | OSHA PEL   |
|---|--|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA: 100 ppm<br>TWA: 600 mg/m <sup>3</sup><br>Skin |
| Diacetone alcohol<br>123-42-2                     | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup>          |
| 2-Butoxyethanol<br>111-76-2                       | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>Skin  |

| Component   | OSHA PEL (vacated)   |
|---|--|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA: 100 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 900 mg/m <sup>3</sup><br>Skin |
| Diacetone alcohol<br>123-42-2                     | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup>  |
| Propylene glycol monomethyl ether<br>107-98-2     | TWA: 100 ppm<br>TWA: 360 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 540 mg/m <sup>3</sup>         |
| 2-Butoxyethanol<br>111-76-2                       | TWA: 25 ppm<br>TWA: 120 mg/m <sup>3</sup><br>Skin  |

| Component   | Ontario TWAEV                         |
|---|---------------------------------------|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA: 100 ppm<br>STEL: 150 ppm<br>Skin |
| Diacetone alcohol<br>123-42-2                     | TWA: 50 ppm                           |
| Propylene glycol monomethyl ether<br>107-98-2     | TWA: 50 ppm<br>STEL: 100 ppm          |
| 2-Butoxyethanol<br>111-76-2                       | TWA: 20 ppm                           |

| Component   | Mexico OEL (TWA)  |
|---|---|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | TWA/VLE-PPT: 100 ppm<br>TWA/VLE-PPT: 60 mg/m <sup>3</sup><br>STEL/PPT-CT: 150 ppm<br>STEL/PPT-CT: 900 mg/m <sup>3</sup> |
| Diacetone alcohol<br>123-42-2                     | TWA/VLE-PPT: 50 ppm<br>TWA/VLE-PPT: 240 mg/m <sup>3</sup><br>STEL/PPT-CT: 75 ppm<br>STEL/PPT-CT: 360 mg/m <sup>3</sup>  |
| 2-Butoxyethanol<br>111-76-2                       | TWA/VLE-PPT: 26 ppm<br>TWA/VLE-PPT: 120 mg/m <sup>3</sup><br>STEL/PPT-CT: 75 ppm<br>STEL/PPT-CT: 360 mg/m <sup>3</sup>  |

### Appropriate engineering controls

#### Engineering Measures

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

### Individual protection measures, such as personal protective equipment

#### Eye/Face Protection

Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

#### Hand Protection

Chemical resistant protective gloves.  
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other  
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.  
Due to different glove types, the manufacturer's directions for use should be observed.

Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

|                       |                |                       |                          |
|-----------------------|----------------|-----------------------|--------------------------|
| <b>Physical State</b> | Liquid         | <b>Appearance</b>     | Colored Liquid           |
| <b>Odor</b>           | Characteristic | <b>Odor Threshold</b> | No information available |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| pH                                     |                   | No data available       |
| Melting Point / Freezing Point         |                   | No data available       |
| Boiling Point / Boiling Range          | > 149 °C / 300 °F |                         |
| Flash Point                            | 52 °C / 125 °F    | Setaflash closed cup    |
| Evaporation rate                       |                   | No data available       |
| Flammability Limit in Air              |                   |                         |
| Upper flammability limit               |                   | No data available       |
| Lower flammability limit               |                   | No data available       |
| Vapor Pressure                         |                   | No data available       |
| Vapor Density                          |                   | No data available       |
| Specific Gravity                       | 1.11              |                         |
| Water Solubility                       |                   | No data available       |
| Solubility in other solvents           |                   | No data available       |
| Partition coefficient: n-octanol/water |                   | No data available       |
| Autoignition Temperature               |                   | No data available       |
| Decomposition temperature              |                   | No data available       |
| Kinematic viscosity                    |                   | No data available       |
| Dynamic viscosity                      |                   | No data available       |
| <b>Explosive Properties</b>            | No data available |                         |
| <b>Oxidizing Properties</b>            | No data available |                         |

Other Information

|                                    |      |
|------------------------------------|------|
| <b>Photochemically Reactive</b>    | No   |
| <b>Weight Per Gallon (lbs/gal)</b> | 9.29 |

| VOC by weight %<br>(less water) | VOC by volume %<br>(less water) | VOC lbs/gal<br>(less water) | VOC grams/liter<br>(less water) |
|---------------------------------|---------------------------------|-----------------------------|---------------------------------|
| 34.97                           | 36.41                           | 3.25                        | 389.5                           |

**10. STABILITY AND REACTIVITY**

Reactivity

No information available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

**Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. |
| <b>Eye Contact</b>  | Specific test data for the substance or mixture is not available. |
| <b>Skin Contact</b> | Specific test data for the substance or mixture is not available. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. |

| Component   | Oral LD50            |
|---|----------------------|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | = 5.35 g/kg ( Rat )  |
| Diacetone alcohol<br>123-42-2                     | > 4 g/kg ( Rat )     |
| Propylene glycol monomethyl ether<br>107-98-2     | = 5000 mg/kg ( Rat ) |
| 2-Butoxyethanol<br>111-76-2                       | = 470 mg/kg ( Rat )  |
| Additive  | > 3200 mg/kg ( Rat ) |

| Component   | Dermal LD50              |
|---|--------------------------|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | = 9500 mg/kg ( Rabbit )  |
| Diacetone alcohol<br>123-42-2                     | = 13630 mg/kg ( Rabbit ) |
| Propylene glycol monomethyl ether<br>107-98-2     | = 13 g/kg ( Rabbit )     |
| 2-Butoxyethanol<br>111-76-2                       | = 435 mg/kg ( Rabbit )   |

| Component                                     | Inhalation LC50                                |
|---|--|
| Diacetone alcohol<br>123-42-2                 | > 7.23 g/m <sup>3</sup> ( Rat ) 8 h            |
| Propylene glycol monomethyl ether<br>107-98-2 | > 7559 ppm ( Rat ) 6 h                         |
| 2-Butoxyethanol<br>111-76-2                   | = 450 ppm ( Rat ) 4 h<br>= 486 ppm ( Rat ) 4 h |
| Additive                                      | > 5.3 mg/L ( Rat ) 6 h                         |

**Information on toxicological effects**

**Symptoms** Specific test data for the substance or mixture is not available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                  |   |
|----------------------------------|---|
| <b>Skin corrosion/irritation</b> | Specific test data for the substance or mixture is not available.   |
| <b>Eye damage/irritation</b>     | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components).       |
| <b>Irritation</b>                | Specific test data for the substance or mixture is not available.   |
| <b>Corrosivity</b>               | Specific test data for the substance or mixture is not available.   |
| <b>Sensitization</b>             | Specific test data for the substance or mixture is not available. May cause an allergic skin reaction. (based on components). |
| <b>Mutagenic Effects</b>         | Specific test data for the substance or mixture is not available.   |

|                                 |  |
|---------------------------------|--|
| <b>Carcinogenic effects</b>     | Specific test data for the substance or mixture is not available.                        |
| <b>Reproductive Effects</b>     | Specific test data for the substance or mixture is not available.                        |
| <b>STOT - single exposure</b>   | Specific test data for the substance or mixture is not available.                        |
| <b>STOT - repeated exposure</b> | Specific test data for the substance or mixture is not available.                        |
| <b>Chronic Toxicity</b>         | Specific test data for the substance or mixture is not available.                        |
| <b>Aspiration hazard</b>        | Specific test data for the substance or mixture is not available.                        |
| <b>Carcinogenicity</b>          | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component                   | ACGIH |
|-----------------------------|-------|
| 2-Butoxyethanol<br>111-76-2 | A3    |

### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                      |
|--------------------------------------|----------------------|
| <b>ATEmix (oral)</b>                 | 19,608.00 mg/kg      |
| <b>ATEmix (dermal)</b>               | 43,137.00 mg/kg mg/l |
| <b>ATEmix (inhalation-dust/mist)</b> | 58.80 mg/l           |
| <b>ATEmix (inhalation-vapor)</b>     | 431.00 mg/l          |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Specific test data for the substance or mixture is not available.

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Component   | Fish  |
|---|---|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | 96h LC50 Pimephales promelas: > 10000 mg/L (static)   |
| Diacetone alcohol<br>123-42-2                     | 96h LC50 Lepomis macrochirus: = 420 mg/L (static)<br>96h LC50 Lepomis macrochirus: = 420 mg/L   |
| Propylene glycol monomethyl ether<br>107-98-2     | 96h LC50 Pimephales promelas: = 20.8 g/L (static)   |
| 2-Butoxyethanol<br>111-76-2                       | 96h LC50 Lepomis macrochirus: = 2950 mg/L<br>96h LC50 Lepomis macrochirus: = 1490 mg/L (static) |
| Additive  | 96h LC50 Pimephales promelas: > 1.55 mg/L (static)  |

| Component   | Crustacea                            |
|---|--------------------------------------|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | 48h LC50 Daphnia magna: = 1919 mg/L  |
| Propylene glycol monomethyl ether<br>107-98-2     | 48h EC50 Daphnia magna: = 23300 mg/L |
| 2-Butoxyethanol<br>111-76-2                       | 48h EC50 Daphnia magna: > 1000 mg/L  |
| Additive  | 48h EC50 Daphnia magna: > 1.46 mg/L  |

### Persistence and Degradability

No information available.

### Bioaccumulation

No information available

| Component                           | Partition coefficient |
|-------------------------------------|-----------------------|
| Dipropylene glycol monomethyl ether | -0.064                |

|   |        |
|---|--------|
| 34590-94-8                                    |        |
| Diacetone alcohol<br>123-42-2                 | 1.03   |
| Propylene glycol monomethyl ether<br>107-98-2 | -0.437 |
| 2-Butoxyethanol<br>111-76-2                   | 0.81   |

**Other adverse effects**  
No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste Disposal Methods** Contain and dispose of waste according to local regulations.

**Contaminated Packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORT INFORMATION**

**Note:** This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**DOT** In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

**UN/ID no.** UN1210  
**Proper Shipping Name** Printing Ink  
**Hazard Class** 3  
**Packing Group** III

**ICAO / IATA / IMDG / IMO**

**UN/ID no.** UN1210  
**Proper Shipping Name** Printing Ink  
**Hazard Class** 3  
**Packing Group** III

**15. REGULATORY INFORMATION**

**International Inventories**

All components are listed on the TSCA Inventory. For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor).

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Component       | CAS-No   | Weight % | SARA 313 - Threshold Values |
|-----------------|----------|----------|-----------------------------|
| 2-Butoxyethanol | 111-76-2 | 1 - 5    | 1.0                         |



**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**U.S. State Regulations**

| Component   | Massachusetts<br>Right To Know |
|---|--------------------------------|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | X                              |
| Diacetone alcohol<br>123-42-2                     | X                              |
| Propylene glycol monomethyl ether<br>107-98-2     | X                              |
| 2-Butoxyethanol<br>111-76-2                       | X                              |

| Component   | Minnesota<br>Right To Know |
|---|----------------------------|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | X                          |
| Diacetone alcohol<br>123-42-2                     | X                          |
| Propylene glycol monomethyl ether<br>107-98-2     | X                          |
| 2-Butoxyethanol<br>111-76-2                       | X                          |

| Component   | New Jersey<br>Right To Know |
|---|-----------------------------|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | X                           |
| Diacetone alcohol<br>123-42-2                     | X                           |
| Propylene glycol monomethyl ether<br>107-98-2     | X                           |
| 2-Butoxyethanol<br>111-76-2                       | X                           |

| Component   | Pennsylvania<br>Right To Know |
|---|-------------------------------|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | X                             |
| Diacetone alcohol<br>123-42-2                     | X                             |
| Propylene glycol monomethyl ether<br>107-98-2     | X                             |
| 2-Butoxyethanol<br>111-76-2                       | X                             |

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

**Canada**

| Component   | NPRI - National Pollutant Release Inventory         |
|---|---|
| Dipropylene glycol monomethyl ether<br>34590-94-8 | Part 5, Other Groups and Mixtures; Part 4 Substance |
| Diacetone alcohol<br>123-42-2                     | Part 4 Substance                                    |
| Propylene glycol monomethyl ether<br>107-98-2     | Part 5, Other Groups and Mixtures; Part 4 Substance |
| 2-Butoxyethanol<br>111-76-2                       | Part 5, Individual Substances; Part 4 Substance     |

