

# SAFETY DATA SHEET

## TRIPASS ELV 1500LT YELLOW ADDITIVE

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name TRIPASS ELV 1500LT YELLOW ADDITIVE  
Product No. 187910

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

Identified uses A preparation intended for use in industrial surface finishing. Additive for trivalent passivation process.

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

Supplier MacDermid Limited  
198 Golden Hillock Road  
Birmingham  
B11 2PN  
Tel: +44 (0) 121 606 8100  
sdsuk@macdermid.com

Contact Person

#### 1.4. Emergency telephone number

24 Hour Emergency Incident Number +44 (0)1235 239 670 - NCEC (National Chemical Emergency Centre)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Eye Irrit. 2 - H319
Environment	Not classified.

##### Classification (1999/45/EEC)

Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



##### Signal Word

Warning

##### Hazard Statements

H319

Causes serious eye irritation.

##### Precautionary Statements

P280  
P261  
P305+351+338

Wear protective clothing, gloves, eye and face protection.  
Avoid breathing vapour/spray.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

##### Supplementary Precautionary Statements

P403+233  
P501a

Store in a well-ventilated place. Keep container tightly closed.  
Dispose of contents/container in accordance with local, regional, national and/or international regulations

#### 2.3. Other hazards

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This product does not contain any PBT or vPvB substances.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

4-(2-Hydroxy -1-naphthyl azo) benzenesulfonic acid, sodium salt		1 - <5%
CAS-No.: 633-96-5	EC No.: 211-199-0	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	Classification (67/548/EEC) Xi;R36/37/38.	
2,2-Dimethyl propane -1,3-diol		1 - <3%
CAS-No.: 126-30-7	EC No.: 204-781-0	Registration Number: 01-2119480396-30
Classification (EC 1272/2008) Eye Dam. 1 - H318	Classification (67/548/EEC) Xi;R41.	
FORMIC ACID		0.1 - <1%
CAS-No.: 64-18-6	EC No.: 200-579-1	Registration Number: 01-2119491174-37
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 3 - H331 Skin Corr. 1A - H314	Classification (67/548/EEC) Xn;R20/22. C;R35. R10.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

Remove affected person from source of contamination.

#### Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

#### Ingestion

Rinse nose, mouth and throat with water. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

#### Eye contact

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

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

#### General information

See section 11 for additional information on health hazards. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

#### Inhalation

Vapours may irritate throat and respiratory system and cause coughing. Spray mists may cause respiratory tract irritation.

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## Ingestion

May irritate and cause stomach pain, vomiting and diarrhoea. May cause discomfort if swallowed.

## Skin contact

Liquid may irritate the skin. Prolonged contact may cause redness, irritation and dry skin.

## Eye contact

Irritation of eyes and mucous membranes. Irritation, burning, lachrymation, blurred vision after liquid splash. Spray and vapour in the eyes may cause irritation and smarting.

### 4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

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## SECTION 5: FIREFIGHTING MEASURES

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### 5.1. Extinguishing media

#### Extinguishing media

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### Unusual Fire & Explosion Hazards

Beware, risk of formation of toxic and corrosive gases.

#### Specific hazards

Fire or high temperatures create: Ammonia or amines. Nitrous gases (NOx). Sulphurous gases (SOx).

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Avoid breathing fire vapours. Keep up-wind to avoid fumes. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours/spray and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. In case of spills, beware of slippery floors and surfaces.

### 6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Do not discharge into drains, water courses or onto the ground. Avoid release to the environment. Do not allow ANY environmental contamination.

### 6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Stop leak if possible without risk. To prevent release, place container with damaged side up. Absorb spillage with non-combustible, absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Runoff or release to sewer, waterway or ground is forbidden. Inform Authorities if large amounts are involved.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in section 13.

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## SECTION 7: HANDLING AND STORAGE

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### 7.1. Precautions for safe handling

Do not handle broken packages without protective equipment. Avoid inhalation of vapours/spray and contact with skin and eyes. Use mechanical ventilation in case of handling which causes formation of vapours. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Protect from freezing.

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## Storage Class

Chemical storage.

## 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Min. Storage Temp (°C) 5

Max. Storage Temp (°C) 40

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
FORMIC ACID	WEL	5 ppm	9,6 mg/m <sup>3</sup>			

WEL = Workplace Exposure Limit.

### FORMIC ACID (CAS: 64-18-6)

#### DNEL

Industry	Inhalation.	Short Term	Local Effects	19 mg/m <sup>3</sup>
Industry	Inhalation.	Long Term	Local Effects	9.5 mg/m <sup>3</sup>

REACH dossier information

#### PNEC

Freshwater	2	mg/l
Marinewater	0.2	mg/l
Intermittent release	1	mg/l
STP	7.2	mg/l
Sediment (Freshwater)	13.4	mg/kg
Sediment (Marinewater)	1.34	mg/kg
Soil	1.5	mg/kg

REACH dossier information

### 8.2. Exposure controls

#### Protective equipment



#### Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

#### Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. All handling to take place in well-ventilated area.

#### Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Seek advice from supervisor on the companies' respiratory protection standards.

#### Hand protection

Protective gloves should be used if there is a risk of direct contact or splash. Seek advice from local supervisor. Splash protection: (breakthrough time > 60 minutes). Polyvinyl chloride (PVC). Neoprene. Prolonged contact: (breakthrough time > 480 minutes). Butyl rubber. (For material thickness = 0.5 mm minimum). Protective gloves should conform to EN 374. The condition of gloves should be checked prior to each use. The selection of gloves should be made with consideration to working practises and the duration of exposure. Consideration should be given to other chemicals being handled and the working environment (e.g. sharps, fine work). Note: Observe manufacturers's recommendations, as the selection of suitable gloves does not only depend on glove material type, and permeability may vary between manufacturers.

#### Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

#### Other Protection

Provide eyewash station and safety shower. Wear suitable protective clothing as protection against splashing or contamination.

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## Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove non-impervious clothing that becomes wet. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties. Eating, smoking and water fountains prohibited in immediate work area.

## Environmental Exposure Controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	Liquid
<b>Colour</b>	Orange. / Red.
<b>Odour</b>	Slight odour.
<b>Solubility</b>	Miscible with water
<b>Initial boiling point and boiling range (°C)</b>	~ 110 °C (760 mm Hg)
<b>Melting point (°C)</b>	Not available.
<b>Relative density</b>	0.98 - 1.08 g/ml (20 °C)
<b>Vapour density (air=1)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>pH-Value, Conc. Solution</b>	3 - 5
<b>Viscosity</b>	Not available.
<b>Decomposition temperature (°C)</b>	Not available.
<b>Odour Threshold, Lower</b>	Not available.
<b>Odour Threshold, Upper</b>	Not available.
<b>Flash point (°C)</b>	Not applicable.
<b>Auto Ignition Temperature (°C)</b>	Not applicable.
<b>Flammability Limit - Lower(%)</b>	Not applicable.
<b>Flammability Limit - Upper(%)</b>	Not applicable.
<b>Partition Coefficient (N-Octanol/Water)</b>	Not available.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Not applicable.

### 9.2. Other information

<b>Volatile Organic Compound (VOC)</b>	0 %w/w
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## SECTION 10: STABILITY AND REACTIVITY

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## **10.1. Reactivity**

Stable under normal temperature conditions and recommended use.

## **10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

## **10.3. Possibility of hazardous reactions**

No specific reactivity hazards associated with this product.

### **Hazardous Polymerisation**

Will not polymerise.

## **10.4. Conditions to avoid**

There are no known conditions that are likely to result in a hazardous situation.

## **10.5. Incompatible materials**

### **Materials To Avoid**

No specific, or groups of materials are likely to react to produce a hazardous situation.

## **10.6. Hazardous decomposition products**

None under normal conditions. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire or high temperatures create: Ammonia or amines. Nitrous gases (NO<sub>x</sub>). Sulphurous gases (SO<sub>x</sub>).

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

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### **11.1. Information on toxicological effects**

#### **Acute toxicity:**

Based on available data the classification criteria are not met.

#### **Skin Corrosion/Irritation:**

Based on available data the classification criteria are not met.

#### **Serious eye damage/irritation:**

Causes serious eye irritation.

#### **Respiratory or skin sensitisation:**

Does not contain any substances known to be sensitizing.

#### **Germ cell mutagenicity:**

Does not contain any substances known or suspected to be mutagenic.

#### **Carcinogenicity:**

Does not contain any substances known or suspected to be carcinogenic.

#### **Reproductive Toxicity:**

Does not contain any substances known or suspected to be toxic to reproduction.

#### **Specific target organ toxicity - single exposure:**

Not classified as a specific target organ toxicant after a single exposure.

#### **Specific target organ toxicity - repeated exposure:**

Does not contain any substances known or suspected to be specific target organ toxicants after repeated exposure.

#### **Aspiration hazard:**

Not anticipated to present an aspiration hazard based on chemical structure.

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## **SECTION 12: ECOLOGICAL INFORMATION**

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## Ecotoxicity

The product is not expected to be hazardous to the environment. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product does not contain organically bound halogen.

### 12.1. Toxicity

Based on available data the classification criteria are not met.

### 12.2. Persistence and degradability

#### Degradability

The product is not expected to be biodegradable.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

#### Partition coefficient

Not available.

### 12.4. Mobility in soil

#### Mobility:

The product is miscible with water. May spread in water systems.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

None known.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Keep in original container.

### 13.1. Waste treatment methods

Environmental manager must be informed of all major spillages. Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

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## SECTION 14: TRANSPORT INFORMATION

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### General

Not regulated. The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not relevant

### 14.2. UN proper shipping name

Not relevant

### 14.3. Transport hazard class(es)

Not relevant

### 14.4. Packing group

Not relevant

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

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## 14.6. Special precautions for user

Not relevant

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

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## SECTION 15: REGULATORY INFORMATION

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

#### EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation (EC) No 790/2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP). Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 286/2011 amending Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP).

#### Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

#### Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

#### Water hazard classification

WGK 1

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

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## SECTION 16: OTHER INFORMATION

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#### General information

Physical data included in this SDS do not constitute the Product Specification -see separately supplied documentation. Supply classification prepared by calculation.

#### Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision Date** 13/11/2014

**Revision** 2

**Safety Data Sheet Status** Approved.

**Signature** AA

#### Risk Phrases In Full

R35 Causes severe burns.  
 R10 Flammable.  
 R20/22 Harmful by inhalation and if swallowed.  
 R36/37/38 Irritating to eyes, respiratory system and skin.  
 NC Not classified.  
 R41 Risk of serious damage to eyes.

#### Hazard Statements In Full

H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H335 May cause respiratory irritation.  
 H331 Toxic if inhaled.



# TRIPASS ELV 1500LT YELLOW ADDITIVE

## Disclaimer

This information relates only to the specific material as supplied and may not be valid for such material if used in combination with any other material(s) or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. The data should not be construed as guaranteeing specific properties of the product described or its suitability for a particular application, nor does it make any warranty, either express or implied of merchantability for the product itself. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.