



Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	USP-PIR Accelerator
Hazardous ingredients	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-hydroxyethoxy) ethyl](4-methylphenyl)amino]-ethanol
EC number	911-490-9
REACH Registration Number:	01-2119979579-10-0004
Synonyms:	Ethoxylated p Toluidine N,N-BIS-(2-HYDROXYETHYL)-PARA-TOLUIDINE Poly(oxy1,2-Ethanediy),.Alpha.,.Alpha'-[[4-Methylphenyl)imino]Di-2,1-Ethanediy]Bis[Omega.-hydroxy]- (2.3-EO)

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

Identified uses	Process Category	Environmental Release Category
Use in polymerisation reaction. (Industrial)	PROC01 PROC02 PROC03 PROC04 PROC05 PROC08a PROC08b PROC09	ERC02 ERC06a ERC06c ERC02
Use for formulation of preparations (Industrial)	PROC15 PROC01 PROC02 PROC03 PROC04 PROC05 PROC08a PROC08b PROC09 PROC15	
Use for formulation of preparations (Professional)	PROC05 PROC08a PROC08b PROC09 PROC15 PROC13	ERC08f ERC08c

1.3. Details of the supplier of the safety data sheet

Company name:	Urban Surface Protection Ltd Daisy Dene, Inglewhite Road, Longridge, Preston, PR3 2EB United Kingdom
Tel:	+44 (0) 7701308748
Email:	info@urbansurfaceprotection.co.uk

1.4. Emergency telephone number

Emergency Tel:	+44 7701308748
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Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Hazard Class	Hazard category code	Hazard statement code
Acute oral toxicity	Category 4	H302
Skin Irritation	Category 2	H315
Eye damage/eye irritation	Category 1	H318
Skin sensitization	Category 1	H317
Aquatic Chronic	Category 3	H412



2.2. Label elements

Label elements under CLP:

Hazard statements: H302 - Harmful if swallowed.
H318 - Causes serious eye damage.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Signal words: Danger
Hazard pictograms: GHS05: Corrosion
GHS07: Exclamation mark



Precautionary statements: P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances: Multi-constituent substance

Hazardous ingredients	Identifiers	Content in %	Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Reaction mass of 2,2'-[(4-methylphenyl)imino] bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]-ethanol	REACH #: 01-2119979579-04 EC: 911-490-9	100	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash skin immediately with plenty of water and soap. Subsequent cleansing with polyethyleneglycol 400, then again with water and soap. In case of blueness of lips, skin or nails let the person breathe oxygen. Remove all contaminated clothes and footwear immediately unless stuck to skin.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Wash out mouth with water. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary.



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

See Section 11 for more detailed information on health effects and symptoms.

Skin contact:	There may be mild irritation at the site of contact.
Eye contact:	There may be irritation and pain.
Ingestion:	Nausea and stomach pain may occur. May cause dizziness.
Inhalation:	No symptoms

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

See Section 11 for more detailed information on health effects and symptoms.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: in case of fire, use water spray (fog), foam, dry chemical or CO₂;
Unsuitable extinguishing media: none know.

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture: in a fire or if heated, a pressure increase will occur, and the container may burst;

Hazardous combustion products: decomposition products may include the following materials: carbon oxides, nitrogen oxides.

5.3. Advice for fire-fighters

Special precautions for fire-fighters: promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training;

Special protective equipment for fire-fighters: fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment Eliminate all sources of ignition. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Do not discharge into drains or rivers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

6.3. Methods and material for containment and cleaning up

Small spill:

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.



Large spill:

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section for emergency contact information and section for waste disposal.

6.4. Reference to other sections

For personal protection see section 8.

Section 7: Handling and storage

7.1. Precautions for safe handling

Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Advice on protection against fire and explosion:

Keep away from sources of ignition --- No smoking. Take precautionary measures against static discharges.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in un-labelled containers. Use appropriate containment to avoid environmental contamination.

7.3. Specific end use(s)

Recommendations: Not available

Industrial sector specific solutions: Not available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Derived effect levels

	Exposure	Value	Population	Effects
DNEL	Long term Oral	0,83 mg/kg bw/day	Human via the environment	Systemic
DNEL	Long term Inhalation	9,8 mg/m ³	Workers	Systemic
DNEL	Long term Inhalation	2,9 mg/m ³	Human via the environment	Systemic
DNEL	Long term Dermal	1,4 mg/kg bw/day	Workers	Systemic
DNEL	Long term Dermal	0,83 mg/kg bw/day	Human via the environment	Systemic



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Predicted No Effect Concentration (PNEC)

Compartment Detail	Value
soil	0,212 mg/ kg dwt
Sewage Treatment Plant	10 mg/l
Marine water sediment	0,12 mg/kg dwt
Marine water	0,0048 mg/l
Intermittent release	0,48 mg/l
Fresh water sediment	1,2 mg/kg dwt
Fresh water	0,048 mg/l

Conclusion/Summary: Not available.

8.2. Exposure controls

Appropriate engineering controls /Technical measures:

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

PERSONAL PROTECTION MEASURES:

Respiratory protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Recommended: Full mask with type ABEK filter

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times, when handling chemical products if a risk assessment indicates this is necessary. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations Recommended: (< 1 hour) rubber gloves or PVC gloves.

Eye protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: safety glasses with side-shields

Skin protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended: Wear protective clothing.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls:

Technical measures: 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

9.1. Information on basic physical and chemical properties

Physical State :	viscous liquid
Colour	Clear slightly yellowish to brown
Odour	Characteristic
Melting / freezing pt	-20 °C
Boiling point	>300°C
Density	1,11 kg/L (20°C)
Vapour Pressure	0.003Pa at 25°C
pH	Not Applicable
Flash point	Closed cup: 176°C
Partition coefficient n-octanol/water (log value)	Log Kow (Log Pow): 2.17 at 20°C
Water solubility	21.8g/L at 20°C
Surface tension	65.2 mN/m at 20°C and 1000 mg/L
Flash point	176°C at 1013 hPa
Autoflammability / self-ignition temperature	395°C
Flammability	Non-flammable
Explosive properties	Non-explosive
Oxidising properties	No
Viscosity	3000 mPa.s (25 °C)
Solubility	miscible with most organic solvents.

9.2. Other information

No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Stable under recommended transport or storage conditions. No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

No specific data.

10.5. Incompatible materials

No specific data.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products decomposition products should not be produced.



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Section 11: Toxicological information

11.1. Information on toxicological effect

Acute toxicity

LD50 Oral	Rat	619 mg/kg
LD50 Dermal	Rat	>2000 mg/kg

Skin corrosion/irritation

Irritating Method: OECD 439

Serious eye damage/eye irritation

Severely Irritating

Method: OECD Test No. 405: Acute Eye Irritation/Corrosion

Sensitization

Dermal sensitization: sensitizing Method: OECD 429

skin	Mouse	Sensitising	Skin Sensitisation:
			Local Lymph Node Assay

Germ cell mutagenicity: No information available

Mutagenicity: Not clastogenic in human lymphocytes

Carcinogenicity: No information available

Reproductive toxicity: No information available

Specific target organ toxicity - Single exposure: No information available

Specific target organ toxicity - Repeated exposure: No information available

Aspiration hazard: No information available

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Potential chronic health effects

Result	Species	Dose	Exposure
Sub-acute NOAEL Oral	Rat	100 mg/kg daily	-



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Section 12: Ecological information

12.1. Toxicity

Result	Species	Exposure
Acute LC50 >100 mg/l	Fish – Cyprinus carpio	96 hours
Acute EC50 48 mg/l	Daphnia - Daphnia magna	48 hours
Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
Acute EC50 >1000 mg/l	Micro-organism- Activated sludge	3 hours

12.2 Persistence and degradability

Not readily biodegradable

12.3. Bioaccumulative potential

No bioaccumulation potential (log Kow = 2.17).

12.4. Mobility in soil

Log Koc 2.33 @ 20°C

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT) This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

12.6. Other adverse effects

None known

Section 13: Disposal considerations

13.1. Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.



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Section 14: Transport information

Transport class: This product does not require a classification for transport.

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	-	-	-	-
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)/ Marks	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions for user/ Additional information	Not regulated	Not regulated	Not regulated	Not regulated

Hazard notes:

Not dangerous cargo.

Risk of serious damage to eyes. Irritating to skin.

Keep separated from foodstuffs

Section 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorisation

None of the components are listed.

Substances of very high concern
None of the components are listed.

Other EU regulations Seveso Directive
This product is not controlled under the Seveso III Directive.

15.2. Chemical Safety Assessment

A substance safety assessment was carried out for this product.

Section 16: Other information

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H302	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method



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Full text of abbreviated H statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet [according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. This company shall not be held liable for any damage resulting from handling or from contact with the above product.