

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

1.1 PRODUCT IDENTIFICATION

XYCRYLIC ADMIX

1.2 PRODUCT USE

Modifier of Portland cement mixtures

1.3 COMPANY IDENTIFICATION

Xypex (UK) LLP
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Britannia Business Centre,
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United Kingdom.

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1.4 EMERGENCY TELEPHONE NO:

During normal UK office hours: +44 (0)1684 577756

During normal Western Canadian office hours
(-8hr GMT): +1 604 273 5265

All other times, and in times of unavailability, contact your local emergency services

2. HAZARD IDENTIFICATION

Alkali
EEC Symbol: Xi

3.2 COMPONENTS PRESENTING A HEALTH HAZARD

<u>SUBSTANCE</u>	<u>CONCENTRATION</u>	<u>EINECS</u>	<u>CAS</u>	<u>SYMBOL</u>	<u>R</u>
Acrylic latex emulsion	30 – 50 %	-	Mixture	Irritant	R 36, 37, 38
Aqua Ammonia	<0.2%	-	1336-21-6	Irritant	R 36, 37, 38
Residual Monomers	< 200 PPM	-	Not Required	-	-
Water	40 – 60 %	-	7732-18-5	-	-

2.1 HAZARD CHARACTERISATION

R36 Irritating to eyes
R37/38 Irritating to respiratory system and skin

2.2 PRIMARY ROUTE OF ENTRY

Inhalation : YES
Skin – eyes : YES
Ingestion : NO – except in accidental cases

2.3 HUMAN HEALTH

INHALATION:

Inhalation of vapour or mist may cause to irritation of nose, throat and lung and headache or nausea.

EYES:

Ingredients may cause slight irritation to eyes.

SKIN:

Ingredients may cause slight irritation to skin.

2.4 ENVIRONMENT

Do not allow the material to enter water course. If water is contaminated inform the relevant authorities immediately.

2.5 FURTHER INFORMATION

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 CHEMICAL COMPOSITION

Milky white liquid.
Hazardous ingredients: Ammonia and Individual Residual Monomers

4 FIRST AID MEASURES

When seeking medical advice take this safety data sheet with you.

4.1 AFTER INHALATION

Move person to fresh air and seek immediate medical attention

4.2 AFTER CONTACT WITH EYES

Do not rub eyes as additional cornea damage is possible by mechanical stress. Remove any contact lenses and open the eyelid(s) widely to flush eye(s) immediately by thoroughly rinsing with plenty of clean water for at least 20 minutes. Hold eyelids apart to ensure rinsing of entire surface of the eye and lids with water. Seek immediate professional medical attention.

It is advisable to ensure that eyewash facilities are available when this product is handled.

4.3 AFTER SKIN CONTACT

Remove contaminated clothing, shoes, watches etc.... Wash contaminated area with soap and lukewarm, gently flowing water. Seek professional medical attention if irritation persists. Clean all clothing, shoes, watches etc... before re-using them.

4.4 AFTER INGESTION

Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

If conscious, wash out mouth with clean water. Drink 1 – 2 cups (225-450ml) of water. Ensure plenty of water available to drink.

Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

Seek immediate professional medical assistance and contact an anti poison centre.

5. FIRE FIGHTING MEASURES

5.1 FLASHPOINT AND METHOD

Non-combustible in liquid form.
Material can splatter above 100°C (212°F)
Dried product can burn. Thermal decomposition may yield acrylic monomers.

5.2 EXTINGUISHING MEDIA

Use dry product / dry powder extinguishing media.
Liaise with local fire authority for confirmation of best and most current form of extinguishing media for the product.

5.3 FIRE FIGHTING EQUIPMENT

Wear self-contained breathing apparatus and protective suit.

5.4 COMBUSTION PRODUCTS

Dried product can burn.

5.5 FLAMMABLE LIMITS

Not applicable

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PROTECTIVE MEASURES

Always wear full protective equipment and always follow advice for safe handling procedures and use as described elsewhere within this document. Ensure you have adequate ventilation.

6.2 ENVIRONMENT PROTECTION MEASURES

Do not allow product into drains or water courses. Any spillages into watercourses must be alerted to the Environment Agency or other regulatory body.

6.3 METHODS FOR CLEANING UP

At all times avoid inhalation of product and contact with skin and eyes. Wear full personal protective equipment when cleaning up. Evacuate all non-essential personnel. Floor may become slippery. Use care to avoid falling.

Contain the spillage immediately with inert materials (eg. sand, earth). Transfer liquids and solid diking materials to separate suitable containers for recovery or disposal. Prevent run off into drains, sewers and other waterways.

7. HANDLING AND STORAGE

Do not handle or store product near food, beverages or smoking materials.

7.1 HANDLING

At all times avoid inhalation of product and contact with skin and eyes.

Carrying the product may cause back injuries, strains, sprains or the like. Use correct handling techniques to avoid injury. Use handling equipment and controls if necessary to avoid injury. If in doubt, contact your local health and safety body for further guidance on manual handling.

Always wear sufficient protective equipment and suitable clothing when handling the product. Ensure have adequate ventilation / ventilation equipment available when handling the product.

7.2 STORAGE

Store in a dry, moderate environment. Protect from freezing. Avoid temperatures over 50° Celsius (120° Fahrenheit). Keep in sealed containers until product is required.

Any product that is stacked should be done so in a stable manner, and to a safe height.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE LIMIT VALUES (WORKPLACE EXPOSURE LIMITS (WEL))

Aqua ammonia TWA 10 ppm

8.2 EXPOSURE CONTROLS

8.2.1 Occupational exposure controls

General - Do not eat, drink or smoke when working with the product to avoid contact with skin or mouth. Immediately after working with the product, workers should wash or shower or use skin moisturisers. Remove contaminated clothing, footwear, watches, etc... and clean thoroughly before re-using.

Respiratory Protection – Always use respiratory protection. Inhalation of product must be avoided at all times. Use an FFP2 mask or a MSHA/NIOSH approved half mask. Air purifying respirators should be equipped with organic dust and mist filters.

Provide adequate and suitable ventilation/ventilation equipment when handling product, to maintain levels below OES. All ventilation systems should be filtered before discharge to atmosphere. Use local exhaust ventilation with a minimum capture velocity of 100ft/min (0.5 m/s) at the point of vapour evolution

Eye Protection – Wear safety goggles/glasses to EN 166(5) at all times when handling the product. Ensure the goggles/glasses have suitable side protection, are tight fitting, are impact resistant, are anti-mist, have wide vision, and that there is no risk of product particles being able to enter the eye(s). It is advisable to ensure that eyewash facilities are available when this product is handled.

Skin Protection – Use impervious, abrasion and alkali resistant gloves (made of low soluble Cr (VI) containing material) internally lined with cotton, enclosed rubber boots that resist dust penetration, closed long-sleeved impervious protective clothing that protects skin from contact. Close all fittings at opening. Additionally use skin care products (including barrier creams)

Additional safety precautions may include the provision of a shower facility.

8.2.2 Environmental exposure controls. – According to available technology.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 GENERAL INFORMATION

The product has the appearance of a milky white liquid, with a slightly ammoniacal odour.

9.2 PHYSICAL DATA

Its physical state is liquid.

Odour threshold – 50 ppm

pH 9.5 – 10.2

Specific Gravity – 1.0 – 1.2 (water = 1)

Solubility in water (% W/W) – water dilutable

10. STABILITY AND REACTIVITY

10.1 STABILITY

The product is stable under normal conditions.

10.2 CONDITIONS TO AVOID

Protect from freezing and temperatures over 50° Celsius (120° Fahrenheit).

10.3 MATERIALS TO AVOID

No known incompatibility with other substances.

10.4 HAZARDOUS DECOMPOSITION PRODUCTS

None known.

11. TOXICOLOGICAL INFORMATION

11.1 ACUTE EFFECTS

Eye contact - Direct contact with product may cause immediate or delayed irritation or inflammation.

Skin contact – When skin is exposed to the product it may cause irritation.

Ingestion – May cause irritation to the gastrointestinal tract.

Inhalation – The product may irritate the throat and respiratory tract. Coughing, sneezing and shortness of breath may occur following exposures in excess of occupational exposure limits.

Acute Oral Toxicity - of material, species....closely related product LD₅₀ >5000mg/kg (oral rat) (dermal, rabbit)

11.2 CHRONIC EFFECTS

None known

11.3 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None Known

12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Do not allow the product to enter water courses. If water is contaminated inform the relevant authorities immediately. The addition of large amounts of the product to the water course may raise the pH and may therefore be toxic to aquatic life under certain circumstances.

12.2 MOBILITY

In dried state product can become airborne.

12.3 PERSISTENCE AND DEGRADABILITY / BIO ACCUMULATIVE POTENTIAL / RESULTS OF PBT ASSESSMENT / OTHER ADVERSE EFFECTS

Thermal decomposition may yield acrylic monomers.

13. DISPOSAL CONSIDERATIONS

General - Dispose of solids and washings in accordance with current local regulations / legislation.

13.1 PRODUCT THAT HAS EXCEEDED ITS SHELF LIFE

Dispose of product in accordance with current regulations/legislation and at a licensed waste facility accepting material of this nature.

13.2 PRODUCT – UNUSED RESIDUE OR DRY SPILLAGE

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate in a furnace in respect of current relevant regulations/legislation regarding disposal.

13.3 PACKAGING

Completely empty packaging and process it according to current regulations / legislation.

14. TRANSPORT INFORMATION

The product is not classified as hazardous for transport purposes.

15. REGULATORY INFORMATION

15.1 CLASSIFICATION AND LABELLING OF PRODUCT



IRRITANT

RISK PHRASES

Xi - Irritant

R36 - Irritating to eyes

R37/38 - Irritating to respiratory system and skin

SAFETY PHRASES

S2 - Keep out of reach of children

S24/25 - Avoid contact with skin and eyes

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37//39 - Wear suitable protective clothing, gloves and eye/face protection

S38 - In case of insufficient ventilation wear suitable respiratory equipment

S46 - If swallowed, seek medical advice immediately and show this container or label

15.3 NATIONAL LEGISLATION / REQUIREMENTS

Health and Safety at Work etc Act 1974

Control of Substances Hazardous to Health (Regulations)

HSE Guidance Note EH40 – (Workplace Exposure Limits)
First Aid Manual authorised by St John's/St Andrew's/Red Cross

Manual Handling Operation Regulations

Environmental Protection Act

The Chemicals (Hazard Information and Packaging for supply) Regulations 2002.

Statutory Instrument 2002 No.1689

HSE Chemical Hazard Alert Notice 35

REACH

(Registration, Evaluation and Authorisation of Chemicals)

COSHH Essentials : Easy steps to control chemicals

COSHH Regulations HSE 193

16. OTHER INFORMATION

Abbreviations

OEL: Occupational Exposure Limit

TWA: Time Weighted Averages

MEL: Maximum Exposure Limit

UEL: Upper Explosion Limit

LEL: Lower Explosion Limit

PPE: Personal Protective Equipment

References

The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risk as required by Health and Safety Legislation. It is the sole responsibility of the user to take all precautions required in handling the product.

The information in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information given is based on technical data we believe to be reliable at time of issue. Because of conditions outside our control, it is the responsibility of the user to verify safety data for combinations with other materials, or for use in specific purposes, and to verify waste disposal requirements.

Such information contained within this Safety Data Sheet is to the best of Xypex (UK) LLP knowledge and belief accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/herself as to the suitability and completeness of such information for his/her own particular use.

