

1. IDENTIFICATION OF PREPARATION & OF COMPANY

Product:	Rolling Aid for Polyester Applied Glassflake Systems
Manufacturer:	Chemco International Ltd East Shawhead Industrial Estate Coatbridge ML5 4XD Scotland United Kingdom
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2. HAZARDS IDENTIFICATION

Acute effects:	Flammable. Harmful by inhalation. Irritating to eyes and skin.
Hazard class:	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Asp. Tox. 1

Hazard pictograms:



Signal word:	Warning.
Hazard statements: According to Regulation (EC) 1272/2008 (CLP)	H226, Flammable liquid and vapour. H304, May be fatal if swallowed and enters airways. H315, Causes skin irritation. H319, Causes serious eye irritation. H332, Harmful if inhaled.
Precautionary statements:	P210, Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233, Keep container tightly closed. P242, Use only non-sparking tools. P243, Take precautionary measures against static discharge. P271, Use only outdoors or in a well-ventilated area. P280, Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340, IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331, Do NOT induce vomiting. P362, Take off contaminated clothing and wash before reuse. P370 + P378, In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. P403 + P235, Store in a well-ventilated place. Keep cool. P501, Dispose of contents/container in accordance with national regulations.

3. COMPOSITION INFORMATION ON INGREDIENTS

CAS No. EC No.	Chemical Name	Weight	67/548/EEC Classification	1278/2008 Classification
100-42-5 202-851-5	Styrene	> 98	R10 Xn; R20 Xi; R36/38	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319

For full text of H-statements, R-phrases and Symbols, see Section 16.

Amounts specified are typical and do not represent a specification. Remaining components are proprietary non-hazardous, and/or present at amounts below reportable limits.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air if effects occur. Seek medical attention.
Ingestion:	Immediately give plenty of water (if possible charcoal slurry). Seek medical attention immediately. Do not induce vomiting. Fully trained personnel can use oxygen or artificial respiration if required.
Eyes:	Rinse with flowing water immediately for at least 15 minutes. Seek medical attention.
Skin:	Remove contaminated clothing. Flush with flowing water for at least 15 minutes. Wash affected area with soap and water. Seek medical attention if irritation persists.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Water spray, carbon dioxide, dry chemical powder, sand, dolomite, etc.
Unusual fire and explosion hazards:	May explode in a fire. Vapour explosion and poison hazard indoors, outdoors and in sewers.
Hazardous decomposition products:	Toxic gases, vapours/fumes of carbon monoxide, carbon dioxide.
Special fire-fighting protection:	Keep run-off water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water until well after fire is out. Withdraw from vicinity immediately in case of rising sound from venting safety device or discolouration to tanks. Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Clean-up personnel should use respiratory and/or liquid contact protection. Do not breathe vapours. Keep away from sources of ignition. No smoking. Avoid contact with skin, eyes and clothing.
Environmental precautions:	Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.
Methods for cleaning up:	Absorb small quantities with paper towels and evaporate in safe place (fume hood). Allow sufficient time for vapour to clear the hood ducts then burn paper away from combustion sources. Ventilate well, stop flow of gas or liquid if possible. Remove ignition sources. Flush with water. Dike for spills (ensuring spillage do not enter drains or confined spaces because of explosion risk). Soak up with inert absorbent material, such as sand, and collect in suitable containers. Prevent entry into drains, sewers and water courses.

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7. HANDLING & STORAGE

Handling:	Avoid breathing vapours, skin and eye contact. If contamination is above accepted level use approved respirator. Operatives should wear full protective clothing for prolonged exposure and/or high concentrations. Do not wear contact lenses.
Storage:	Keep away from oxidisers, heat and flames. Isolate from other materials. Store in mild steel (coated) or stainless steel drums below temperatures of 32°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures/controls: Exposure limits:	Provide adequate general and local exhaust ventilation. Maximum exposure limits: long-term exposure = 100ppm short-term exposure = 250ppm
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Eye protection:	Tightly fitting safety goggles, face-shield.
Skin protection:	Protective suit and safety shoes.
Hygienic work routines:	Wash regularly and at end of shift and before eating, smoking and using toilet. If skin becomes wet wash promptly. Remove contaminated clothing quickly. Isolate clothing and wash before use.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid, oily, refractive.
Colour:	Colourless, light (or pale) yellow.
Odour:	Aromatic, penetrating, sweet.
Boiling point:	145°C
Melting point:	-30°C
Flash point:	31°C (DIN 51758)
Solubility:	Slightly soluble in water. Soluble in alcohol.
Specific gravity:	0.91kg/m ³
Vapour density:	3.60kg/m ³
Vapour pressure:	4.50
Viscosity:	(cP-20°C) 0.75
Autoignition point:	490°C
Flammable limits:	Upper 6.1% Lower 1.1%

10. STABILITY & REACTIVITY

Stability:	Avoid heat, sparks, flames. Storing in uninhibited state. Moisture. Air and oxidisers.
Polymerisation description:	Polymerises easily with the evolution of heat. Keep cool. Avoid heat. Monitor inhibitor and polymer formation in stored material.
Materials to avoid:	Chlorosulphonic acid, oleum, oxygen, sodium nitrate, sulphuric acid, strong oxidising agents.
Hazardous decomposition products:	Burning produces carbon, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Toxic dose ¹ -LD 50:	660.00mg/kg (ipr-mus)
Health warnings:	This chemical may cause skin/eye irritation and burns (corrosive). Irritant of eyes and mucous membranes. Known or suspected carcinogen for humans. CNS depressant. Repeated exposure may cause chronic eye irritation. May cause chemical eye burns. Acute eczematous dermatitis, contact type erythema oedema, papules, vesicles, bullae, crusts, desquamation). Swallowing concentrated chemical may cause severe internal injury. Unconscious death. IRAC Int. Agency for Cancer Research.
Other health effects:	Inhalation. Skin absorption.
Route of energy:	Ingestion. Skin and/or eye contact.
Target organs:	Central nervous system. Eyes. Respiratory system, lungs. Skin.
Medical symptoms:	Extreme irritation of eyes and mucous membranes, including burning and tearing. Dilated pupils. Rhinitis (inflammation of the Nasal mucous membranes). Upper respiratory irritation. Nausea, vomiting. Unconsciousness, possibly death. CNS depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
Medical considerations:	Skin disorders and allergies. Convulsive disorders, CNS problems.

12. ECOLOGICAL INFORMATION

Mobility:	Slightly soluble in water. Will evaporate from land spillage.
Bioaccumulation:	Product is not expected to bioaccumulate.
Degradability:	The product is expected to be readily biodegradable.
Water hazard class:	Class 2, hazardous for water. Do not allow product to reach ground water, water bodies or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into soil. Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Product:	Incinerate in suitable combustion chamber. Absorb in vermiculate or dry sand, dispose in licensed special waste. Collect on absorbent material, place in card board kegs and incinerate. Confirm disposal procedures with environmental engineer and local regulations.
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14. TRANSPORT INFORMATION

Proper shipping name:	Styrene monomer, stabilized		
Road/rail			
ADR/RID Class:	3	ADR/RID Item No:	31°C
UN No:	UN 2055	HAZCHEM Code:	3Y
Sea			
IMO/IMDG Code:	3.3	IMDG Page No:	3155
EMS No:	3-03	MFAG No:	310
UN No:	UN 2055	Packing Group:	III
Air			
IATA/ICAO Class:	3	Packing Group:	III
UN No:	UN 2055		
Packing Instruction (Pass & Cargo):	355	Packing Instruction (Cargo):	366

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15. REGULATORY INFORMATION

Chemical name:	Styrene.
Labelling:	According to EEC directives relating to packaging and labelling of dangerous substances and UK Chemicals Hazard Information and Packaging for Supply (CHIPS) legislation.
Safety phrases:	S23, Do not breathe vapours.
TSCA Certifications:	All chemicals in this product are listed, or are exempt from listing, on the TSCA inventory.

16. OTHER INFORMATION

Symbols:	(Xi) Irritant. (Xn) Harmful
Hazard statements:	H226, Flammable liquid and vapour. H304, May be fatal if swallowed and enters airways. H315, Causes skin irritation. H319, Causes serious eye irritation. H332, Harmful if inhaled.
Risk phrases in full:	R10, Flammable. R20, Harmful by inhalation. R36/38, Irritating to eyes and skin.

The information contained in this data sheet is based on present state of knowledge and current national legislation (CHIPS). It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for the particular applications.

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