

#### **SAFETY DATA SHEET**

# **WANOL F2110P**

# WANHUA CHEMICAL GROUP Co., LTD.

Version No: 2.3

Safety Data Sheet Safety Data Sheet - Authored according to GB/T16483(2008) and GB/T17519(2013)

Chemwatch Hazard Alert Code: 1

Issue Date: **27/02/2018**Print Date: **27/02/2018**L.GHS.CHN.EN

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

#### **Product Identifier**

Product name	WANOL F2110P
Synonyms	Polymer polyol WANOL F2110P
Other means of identification	Not Available

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

Relevant identified uses	WANOL F2110P product has no BHT, low residual monomer and low viscosity, which is suitable for high elastic soft foam cold molding, block material and
Neievant identified daes	so on.

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

Registered company name	WANHUA CHEMICAL GROUP Co., LTD.
Address	No.17 Tianshan Road, Yantai, Shandong China
Telephone	0535-3031150
Fax	0535-338222-1150
Website	https://www.whchem.com
Email	whsds@whchem.com

# Emergency telephone number

А	ssociation / Organisation	Not Available
Emerg	gency telephone numbers	+86 532-83889090
Ot	her emergency telephone numbers	+86 535-8203123

#### **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

#### SUMMARY OF HAZARD IN AN EMERGENCY SITUATION

Liquid.

Does not mix with water.

Sinks in water.Combustible.

Classification [1]	Acute Toxicity (Oral) Category 5
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Catalog of Hazardous Chemical ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

### Label elements

<u> Luboi didinonto</u>	
Hazard pictogram(s)	Not Applicable
SIGNAL WORD	WARNING

# Hazard statement(s)

. ,	
H303	May be harmful if swallowed.

# Precautionary statement(s) Prevention

Not Applicable

# Precautionary statement(s) Response

P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
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#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Not Applicable

#### **Physical and Chemical Hazard**

Liquid.

Does not mix with water.

Sinks in water.Combustible.

Toxic smoke/fumes in a fire.

#### **Health Hazards**

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.	
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.	
Skin Contact  The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact de material is unlikely to produce an irritant dermatitis as described in EC Directives.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmfuthe skin prior to the use of the material and ensure that any external damage is suitably protected.		
Еуе	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).	
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.  On the basis, primarily, of animal experiments, concern has been expressed by at least one classification body that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment.	

#### **Environmental Hazards**

See Section 12

#### Other hazards

Ingestion may produce health damage\*.

Limited evidence of a carcinogenic effect\*.

Possible respiratory sensitizer\*.

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

#### Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
9082-00-2*	88-92	Glyercol propoxylated-b-ethoxylated
57913-80-1*	1-3	Propoxylated, ethoxylated glycerol, styrene, acrylonitrile polymer
9003-54-7	8-12	styrene/ acrylonitrile copolymer

# **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

Eye Contact	<ul> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
	If skin or hair contact occurs:  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.  For thermal burns:  ► Decontaminate area around burn.
	<ul> <li>Consider the use of cold peaks and topical antihistics</li> </ul>

For first-degree burns (affecting top layer of skin)

If this product comes in contact with the eyes:

- ▶ Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. **Skin Contact** 
  - ▶ Use compresses if running water is not available.
  - ▶ Cover with sterile non-adhesive bandage or clean cloth.
  - ▶ Do NOT apply butter or ointments; this may cause infection.
  - ► Give over-the counter pain relievers if pain increases or swelling, redness, fever occur.
  - For second-degree burns (affecting top two layers of skin)
  - ▶ Cool the burn by immerse in cold running water for 10-15 minutes.
  - ▶ Use compresses if running water is not available.
  - ▶ Do NOT apply ice as this may lower body temperature and cause further damage.

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▶ Do NOT break blisters or apply butter or ointments; this may cause infection. Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort): Lav the person flat. ► Elevate feet about 12 inches. Elevate burn area above heart level, if possible. ► Cover the person with coat or blanket. Seek medical assistance. For third-degree burns Seek immediate medical or emergency assistance. In the mean time: Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. ▶ Separate burned toes and fingers with dry, sterile dressings ▶ Do not soak burn in water or apply ointments or butter; this may cause infection. ► To prevent shock see above. For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway. Have a person with a facial burn sit up ▶ Check pulse and breathing to monitor for shock until emergency help arrives. ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. Inhalation Other measures are usually unnecessary. ► If swallowed do **NOT** induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Ingestion Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.

# Advise for rescue team (PPE requirement for rescue personnel)

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

Seek medical advice.

Treat symptomatically.

#### **SECTION 5 FIREFIGHTING MEASURES**

#### **Extinguishing media**

- ► Foam.
- Dry chemical powder.
- ▶ BCF (where regulations permit)
- Carbon dioxide
- Water spray or fog Large fires only.

Fire Incompatibility

# Special hazards arising from the substrate or mixture

Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic furnes of carbon monoxide (CO).</li> <li>▶ May emit acrid smoke.</li> <li>▶ Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>	

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

May emit poisonous fumes.

See section 8

#### **Measures for Preventing Secondary Contamination**

#### **Environmental precautions**

See section 12

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# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves.  Prevent, by any means available, spillage from entering drains or water course.  No smoking, naked lights or ignition sources.  Increase ventilation.  Stop leak if safe to do so.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.  Absorb remaining product with sand, earth or vermiculite.  Collect solid residues and seal in labelled drums for disposal.  Wash area and prevent runoff into drains.  If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

Precautions for safe handling	9
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Avoid reaction with oxidising agents

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

# **Control parameters**

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

### **EMERGENCY LIMITS**

Ingredient	Material name			TEEL-2	TEEL-3
Glyercol propoxylated- b-ethoxylated	Polyglycol 15-200; (Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1); Calthane NF and ND "B")		30 mg/m3	330 mg/m3	2,000 mg/m3
Ingredient	Original IDLH	Revised IDLH			
Glyercol propoxylated- b-ethoxylated	Not Available	Not Available			
Propoxylated, ethoxylated glycerol, styrene, acrylonitrile polymer	Not Available	Not Available			
styrene/ acrylonitrile copolymer	Not Available Not Available				

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#### MATERIAL DATA

#### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:		Air Speed:
solvent, vapours, degreasir	ng etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)
· · · · · · · · · · · · · · · · · · ·	ng operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating ed at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting into zone of rapid air motion	in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation	1-2.5 m/s (200-500 f/min)
grinding, abrasive blasting, rapid air motion).	tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high	2.5-10 m/s (500-2000 f/min.)

# Appropriate engineering controls

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range	
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity	
3: Intermittent, low production.	3: High production, heavy use	
4: Large hood or large air mass in motion	4: Small hood - local control only	

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

#### Personal protection







# Eve and face protection

- ► Safety glasses with side shields
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

#### Skin protection

See Hand protection below

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

# Hands/feet protection

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term
- Contaminated gloves should be replaced.

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

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	Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.  Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:  Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.  Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential  Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.  Wear chemical protective gloves, e.g. PVC.  Wear safety footwear or safety gumboots, e.g. Rubber
Body protection	See Other protection below
Other protection	Overalls.  P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available

#### Respiratory protection

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class 1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+		-	Airline**

<sup>\* -</sup> Continuous Flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gases, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 deg C)

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

Appearance	Milky white, pale yellow to deep yellow viscous liquid		
Physical state	Liquid	Relative density (Water = 1)	1.02
Odour	Odourless	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	6-9	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	<=1500
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

#### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

 $<sup>^{\</sup>star\star}$  - Continuous-flow or positive pressure demand.

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Hazardous decomposition products

See section 5

# **SECTION 11 TOXICOLOGICAL INFORMATION**

WANOL F2110P	TOXICITY	IRRITATION	
WANGE F2110P	Not Available	Not Available	
Glyercol propoxylated-	тохісіту		IRRITATION
b-ethoxylated	Oral (rat) LD50: 2037 mg/kg <sup>[1]</sup>		Not Available
Propoxylated, ethoxylated glycerol, styrene, acrylonitrile	TOXICITY	IRRITATION	
polymer	Not Available	Not Available	
styrene/ acrylonitrile copolymer	TOXICITY		IRRITATION
styrene/ acrylonithie copolymer	Oral (rat) LD50: 1800 mg/kg <sup>[2]</sup> Not Available		
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity:     data extracted from RTECS - Register of Toxic Effect of chemical Substances		anufacturer's SDS. Unless otherwise specified
Legend:			anufacturer's SDS. Unless otherwise specified
Legend: STYRENE/ ACRYLONITRILE COPOLYMER			anufacturer's SDS. Unless otherwise specified
STYRENE/ ACRYLONITRILE	data extracted from RTECS - Register of Toxic Effect of chemical Substances  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.		anufacturer's SDS. Unless otherwise specified
STYRENE/ ACRYLONITRILE COPOLYMER	data extracted from RTECS - Register of Toxic Effect of chemical Substances  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.	Carcinogenicity	anufacturer's SDS. Unless otherwise specified
STYRENE/ ACRYLONITRILE COPOLYMER  Acute Toxicity	data extracted from RTECS - Register of Toxic Effect of chemical Substances  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.	Carcinogenicity 🚫	anufacturer's SDS. Unless otherwise specified
STYRENE/ ACRYLONITRILE COPOLYMER  Acute Toxicity Skin Irritation/Corrosion	data extracted from RTECS - Register of Toxic Effect of chemical Substances  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.	Carcinogenicity  Reproductivity	anufacturer's SDS. Unless otherwise specified

Legend:

X − Data available but does not fill the criteria for classification
✓ − Data available to make classification

O - Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

# Toxicity

WANOL F2110P	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
Glyercol propoxylated-	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
b-ethoxylated	Not Available	Not Available	Not Available	Not Available	Not Available
Propoxylated, ethoxylated	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
glycerol, styrene, acrylonitrile polymer	Not Available	Not Available	Not Available	Not Available	Not Available
styrene/ acrylonitrile copolymer	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
		'	'		

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

**DO NOT** discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

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Ingredient	Bioaccumulation
	No Data available for all ingredients

#### Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

#### Other adverse effects

No data available

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- ▶ Recycling
- ► Disposal (if all else fails)

#### Waste chemicals:

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
  - Where in doubt contact the responsible authority.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.
- ▶ Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

#### Contaminated packing materials:

Refer to section above

Precautions for Transport: Refer to section above

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#### **SECTION 14 TRANSPORT INFORMATION**

# Labels Required

Marine Pollutant N

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

**Precautions for Transport** 

Suitable Containers

See section 7

# **SECTION 15 REGULATORY INFORMATION**

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

GLYERCOL PROPOXYLATED-B-ETHOXYLATED(9082-00-2\*) IS FOUND ON THE FOLLOWING REGULATORY LISTS

China Inventory of Existing Chemical Substances

PROPOXYLATED, ETHOXYLATED GLYCEROL, STYRENE, ACRYLONITRILE POLYMER(57913-80-1\*) IS FOUND ON THE FOLLOWING REGULATORY LISTS

China Inventory of Existing Chemical Substances

STYRENE/ ACRYLONITRILE COPOLYMER(9003-54-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

China Inventory of Existing Chemical Substances

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (styrene/ acrylonitrile copolymer; Propoxylated, ethoxylated glycerol, styrene, acrylonitrile polymer; Glyercol propoxylated-b-ethoxylated)

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China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (styrene/ acrylonitrile copolymer; Propoxylated, ethoxylated glycerol, styrene, acrylonitrile polymer; Glyercol propoxylated-b-ethoxylated)
Japan - ENCS	N (Propoxylated, ethoxylated glycerol, styrene, acrylonitrile polymer; Glyercol propoxylated-b-ethoxylated)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit,

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

#### Disclaimer

The information in the SDS applies only for the specified product and does not include mixtures of this product with other substances and mixtures. The SDS provides product safety information for personnel trainned to use this product only

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