

Page 1 of 9

## Section 1 - Identification of Chemical Product And Company

CDK STONE NZ Ltd Emergency Phone: 0800 764766

2/40 Canaveral Drive NZ Emergency Services: 111

Rosedale

 Auckland
 Phone:
 0800 803 932

 NEW ZEALAND
 Fax:
 +64 9 479 2424

Substance: Adhesive Glue

Trade Name: Solido Transparente

**Product Use:** 

Section 2 - Hazards Identification

**Statement of Hazardous Nature** 

This product is classified as: HAZARDOUS SUBSTANCE: according to the criteria of HSNO.

REGULATED under NZS5433:2007 Transport of Dangerous Goods on Land

HSNO Signal Word: DANGER

**Emergency Overview** 

Physical Description & colour: Yellow to Red Paste

Odour: Styrene

**Hazard Classification:** 

Flammable Liquid Category 3 3.1C **Acute Oral Toxicity** Category 4 6.1D **Acute Inhalation Toxicity** Category 4 6.1D Skin Effects Category 2 6.3A **Eve Effects** Category 2 6.4A Mutagenicity Category 2 6.6B Carcinogenicity Category 2 6.7B Reproductive Toxicity Category 2 6.8B STOT - SE Category 1 6.9A STOT - RE Category 1 6.9A Acute Aquatic Hazard Category 1 9.1A Chronic Aquatic Hazard 9.1A Category 1 Vertebrate Hazard Category 3 9.3C

Signal Word DANGER

**Hazard Statements:** 

H226 Flammable liquid and vapour

H302 Harmful if swallowed
 H332 Harmful if inhaled
 H315 Causes skin irritation
 H317 Causes serious eye irritation

H317 Causes serious eye irritation H340 May cause genetic defects





Styrene

Paratoluidine polyethoxylate

H350

H361 H372 May cause cancer

Suspected of damaging fertility or the unborn child

Causes damage to organs through prolonged or repeated

# Safety Data Sheet

Page 2 of 9

	1.137.2	inhalation or ingestion
	H400	Very toxic to aquatic life
	H410	Very toxic to aquatic life with long lasting effects
	H432	Toxic to terrestrial vertebrates
		Precautionary Statements
Prevention		
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
	P240	Ground and bond container and receiving equipment
	P241	Use explosion proof electrical/ventilating/lighting/intrinsically safe equipment
	P242	Use non-sparking tools
	P243	Take action to prevent static discharge
	P233	Keep container tightly closed
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
	P260	Do not breathe mists/ vapours/ sprays
	P271	Use in a well-ventilated area
	P270	Do not eat, drink or smoke when using this product
	P273	Avoid release to the environment
Response		
	P301+	+330+312 IF SWALLOWED: Rinse mouth. Call a POSION CENTRE/ doctor/ physician/ firs aider if you feel unwell
	P303+3	+361+352 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash wit
		plenty of water and soap.
	P332+3	
		+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
		lenses if present and easy to do. Continue rinsing
	P337+3	
	P304+3	
	P308+3	
	P370+3	+378 In case of fire use alcohol resistant foam or normal protein foam to extinguish
	P391	Collect spillage
Storage		
	P403+2	+235 Store in a well-ventilated place. Keep cool
	P405	Store locked up
Disposal		
Бізрозиі	P501	Dispose of content/ container to an authorised hazardous or special waste collection poir in accordance with local regulation
	Section 3	3 - Composition/Information on Ingredients
Ingredients		CAS No Conc.%
ingreulents		CAS INU CUIIC.76

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

100-42-5

103671-44-9

20 - 30 %

1 - 3.5 %



Page 3 of 9

#### Section 4 - First Aid Measures

#### **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764766 from anywhere in New Zealand (13 1126 in Australia) and is available at all times. Have this SDS or product label with you when you call.

Eye Contact: Wash out immediately with fresh running water. 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal

of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Skin Contact:** Immediately flush body and clothes with large amounts of water, using safety shower if available.

Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to

hospital, or doctor.

**Inhalation:** Remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false

teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or

doctor, without delay.

**Ingestion:** Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons

Information Centre or a doctor.

Note to Physician: Treat symptomatically

Section 5 - Fire Fighting Measures

**Extinguishing Media:** Preferred extinguishing media are water spray or fog, dry chemical, BCF or foam

Fire and Explosion Hazards: Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms

an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of

carbon monoxide (CO).

Fire Fighting: Alert Fire & Emergency New Zealand and tell them location and nature of hazard. Wear full body

protective clothing with breathing apparatus. Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot.

Equipment should be thoroughly decontaminated after use

**Fire Decomposition:** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>) and other pyrolysis products typical of burning organic

material.

Section 6 - Accidental Release Measures

Minor Spills: Remove all ignition sources. Clean up all spills immediately Avoid breathing vapours and contact with

skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up Collect residues in

a flammable waste container.

Major Spills: Clear area of personnel. Alert Fire & Emergency New Zealand and tell them location and nature of

hazard. Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or waterways. If contamination of drains or waterways occurs, advise emergency

services.



Page 4 of 9

## Section 7 - Handling and Storage

#### Handling:

Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. DO NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

#### Storage:

Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access. Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors. Keep adsorbents for leaks and spills readily available Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks.

### Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

#### **Exposure limits**

CAS no.	Substance or ingredient	WES-TWA		WES-STEL	
100-42-5	Styrene	85 mg/m <sup>3</sup>	20 ppm	170 mg/m <sup>3</sup>	40 ppm

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

## **Engineering 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. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh



Page 5 of 9

#### **Personal Protective Equipment**

**Eye 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

**Skin Protection:** 



Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber

Overalls. PVC Apron. PVC protective suit may be required if exposure severe.

**Protective Material Types:** We suggest that protective clothing be made from the following materials:

PE/EVAL/PE PVA

Teflon

**Respirator:** Type ABK of sufficient capacity



## Section 9 - Physical and Chemical Properties:

Physical Description & colour: Red to yellow paste

Odour:StyrenepH:not applicableVapour Pressure:no dataRelative Vapour Density:not available

Viscosity

Boiling Point:

Volatiles:

Nater Solubility:

Freezing/Melting Point:

Specific Gravity:

Flashpoint

C

Auto implicable °C

negligible

slightly soluble

no data

1.1

Flashpoint

°C

Auto ignition temp:no data °CEvaporation Rate:not availableCoeff Octanol/water distributionno data

## Section 10 - Stability and Reactivity

**Stability** Product is considered stable

**Conditions to Avoid:** Avoid contact with moisture. Reacts with mild steel, galvanized steel / zinc producing hydrogen gas

which may form an explosive mixture with air. Contact with alkaline materials liberates heat.

**Incompatibilities:** Segregate from alkalis, oxidising agents and chemicals readily decomposed by acids i.e. cyanides,

sulfides, carbonates. Avoid reaction with oxidizing agents, i.e. nitrates, oxidizing acids, chlorine

bleaches, pool chlorine etc. as ignition may result

**Polymerisation:** This product will not undergo polymerisation reactions.

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Phone +0800 803 932
Product: **Solido Transparente**This version issued: August 2020



Page 6 of 9

## Section 11 - Toxicological Information

#### Inhaled:

There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs. The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Central nervous system (CNS) depression is seen at styrene exposures exceeding 50 ppm, whilst headache, fatigue, nausea and dizziness are seen consistently at exposures of 100 ppm. Evidence exists that at 100 ppm, 5-10% reductions in sensory nerve conductions occur, and after exposure to 50 ppm, there is slowing of reaction times. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. The acute toxicity of inhaled alkylbenzene is best described by central nervous system depression. These compounds may also act as general anaesthetics. Whole body symptoms of poisoning include light-headedness, nervousness, apprehension, a feeling of well-being, confusion, dizziness, drowsiness, ringing in the ears, blurred or double vision, vomiting and sensations of heat, cold or numbness, twitching, tremors, convulsions, unconsciousness, depression of breathing, and arrest. Heart stoppage may result from cardiovascular collapse. A slow heart rate and low blood pressure may also occur.

#### Ingestion

There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. Styrene is absorbed into the body following oral or inhalation exposure. Its metabolites include styrene oxide, styrene glycol, mandelic acid, benzoic acid, hippuric acid, phenyl glyoxylic acid and possibly vinyl phenol. It is detectable in liver, kidney, pancreas, expired air, urine and faeces in the body. Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.

### **Skin Contact**

There is strong evidence to suggest that this material, on a single contact with skin, can cause very serious, irreversible damage of organs. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts abraded or irritated skin should not be exposed to this material Entry into the bloodstream, through for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Styrene has been showed to be absorbed less through the skin than via the airways. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.

## **Eye Contact**

There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.

#### **Chronic Health Effects**

There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Exposure to styrene may aggravate central nervous system disorders, chronic respiratory disease, skin disease, kidney disease and liver disease. Exposure to styrene at work causes effects on the nervous system.

#### **TOXICITY AND IRRITATION**

Ingredient	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC₅0
Styrene	1000 mg/kg	>2000 mg/kg	11.8 mg/l/4hr

### Section 12 - Ecological Information

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxic to terrestrial vertebrates

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment.

Issued by: **CDK Stone NZ Ltd**Page 6 of 9
Phone +0800 803 932
Product: **Solido Transparente**This version issued: August 2020



Page 7 of 9

Ingredient	Fish		Crustacea		Algae	
Styrene	LC <sub>50 96hr</sub>	3.963 mg/L	EC <sub>50 48hr</sub>	4.7 mg/L	EC <sub>50 96hr</sub>	0.72 mg/L
			NOEC 168hr	).00006 mg/L	EC <sub>10 96hr</sub>	0.13 mg/L

	Persistence H <sub>2</sub> O/ Soil	Persistence Air	Bioaccumulation	Mobility
Styrene	HIGH	LOW	LOW	LOW

## Section 13 - Disposal Considerations

Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. 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 Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled. The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance. Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

## Section 14 - Transport Information





HAZCHEM 3[Y]

**Land Transport UNDG** 

Class or division3Subsidiary RiskNoneUN Number1866UN Packing GroupIIISpecial Provisions223Limited Quantity5 Lt

Shipping Name RESIN SOLUTION, flammable (contains styrene)

Air Transport IATA

ICAO/IATA Class
ICAO/IATA Subrisk
UN/ID Number
ERG Code
Packing Group
Special provision
Cargo only

Packing instructions 366
Maximum Qty/pack 230 Lt

Passenger and Cargo

Packing instructions 355
Maximum Qty/pack 60 Lt
Passenger & Cargo Limited Quantity

Issued by: **CDK Stone NZ Ltd**Page 7 of 9
Phone +0800 803 932
Product: **Solido Transparente**This version issued: August 2020



Page 8 of 9

Packing instructions Y344
Maximum Qty/pack 10 Lt

Shipping Name RESIN SOLUTION flammable (contains styrene)

**Marine Transport IMDG** 

**IMDG Class** 3 IMDG Subrisk None **UN Number** 1866 **UN Packing Group** Ш **EmS Number** F-E S-E Special provisions 223 955 Limited quantities 5 Lt Marine pollutant Yes

Shipping Name RESIN SOLUTION flammable (contains styrene)

## Section 15 - Regulatory Information

HSNO Approval: HSR002669 Surface Coatings & Colourants (Flammable, Toxic [6.7])

**Group Standard conditions and other regulations:** 

Condition	Requirement
SDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Emergency plan	Required when quantities exceed 100 Lt
Certified handler	Not required
Tracking	Not applicable
Bunding and secondary containment	Required dependent on pack size and total volume
Signage	Required when present in quantities exceeding 100 Lt
Location Compliance Certificate	Required when in excess of 500Lt in containers of greater than 5Lt capacity, else greater than 1500Lt containers of upto and including 5Lt capacity, else greater than 250Lt in open containers. Quantity ratio applies
Hazardous Area	Required as per AS/NZS 60079.10
Fire extinguisher	2 required when quantities exceed 500 Lt

#### **National Inventories**

Australia	AICS	Υ
Canada	DSL	Υ
Canada	NDSL	Υ
China	IECSC	Υ
Europe	EINEC/ELINCS/NLP	Υ
Japan	ENCS	Υ
Korea	KECI	Υ
New Zealand	NZIOC	Υ
Philippines	PICCS	Υ



Page 9 of 9

USA	TSCA	١
Taiwan	TCSI	١
Mexico	INSQ	١
Vietnam	NCI	١
Russia	ARIPS	Υ

## Section 16 - Other Information

**Revision History** 

August 2020 Reclassification and reformat August 2015 Initial Preparation

Acronyms:

CAS number Chemical Abstracts Service Registry Number

Hazchem Code Emergency action code of numbers and letters that provide information to emergency services especially

fire-fighters

HSNO Hazardous Substances & New Organisms Act
IARC International Agency for Research on Cancer

ICAO Technical Instruction International Civil Aviation Organization Technical Instructions

IMDG Code International Maritime Dangerous Goods Code controlled by the International Maritime Organisation (IMO)

LC<sub>50</sub> Lethal concentration 50% - concentration fatal to 50% of a population LD<sub>50</sub> Lethal dose 50% - concentration fatal to 50% of a population

NZS 5433 New Zealand Standard 5433 (Standard for the Transport of Dangerous Goods on Land)

**SDS** Safety Datasheet

STEL Short Term Exposure Limit

TWA Time Weighted Average (typically measured as 8-hours)

UN Number United Nations Number
WES Workplace Exposure standard

#### References

Chemical properties and HSNO classifications derived from the New Zealand chemical classification information database (CCID). www.epa.govt.nz

Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 11th Edition (November 2019).

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material in combination with any other material or in any process, unless specified in the text.

This SDS was prepared by Collievale Enterprises Ltd in accord with the Hazardous Substances (Safety Data Sheets) Notice 2017 <a href="http://www.collievale.com">http://www.collievale.com</a> Phone +64 7 5432428

End of SDS