Safety Data Sheet

Pattex Construction Adh 75g-sol

SDS No. : 520334
V001.1
Date of issue: 25.05.2017

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: Pattex Construction Adh 75g-sol

Intended use: Solvent based adhesive

Supplier:
Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture
Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

Hazard Class	Hazard Category	Target organ
Flammable liquids	Category 2	
Target Organ Systemic Toxicant - Single exposure	Category 3	Central Nervous System
Chronic hazards to the aquatic environment	Category 3	
Serious eye irritation	Category 2A	

Hazard pictogram:

Signal word: Danger

Hazard statement(s):
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves, eye protection, and face protection.

Response:
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage:
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Dangerous Goods information:
Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
n-Hexane	110-54-3	< 3 %
Propan-2-ol	67-63-0	< 3 %
Methyl acetate	79-20-9	10- <= 30 %
non hazardous ingredients~		50- < 100 %

Section 4. First aid measures

Ingestion:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Seek medical advice. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees.
Skin:	Remove contaminated clothing and footwear. Rinse with running water and soap. Seek medical advice.
Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of adverse health effects seek medical advice.
Inhalation:	Move to fresh air. Keep warm and in a quiet place. Seek medical advice.
First Aid facilities:	Normal washroom facilities Eye wash
Medical attention and special treatment:	Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media:	Carbon dioxide, foam, powder
Improper extinguishing media:	High pressure waterjet
Decomposition products in case of fire::	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen.
Particular danger in case of fire::	WARNING FLAMMABLE! Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.
Special protective equipment for fire-fighters:	Wear protective equipment. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.
Hazchem code:	•3YE

Section 6. Accidental release measures

Personal precautions:	Ensure adequate ventilation. Avoid contact with skin and eyes. Wear impervious gloves and chemical splash goggles.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Eliminate all ignition sources (flames, hot surfaces, and sources of electrical, static or frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams and groundwater with spilled material or used absorbent. Use noncombustible absorbent material such as sand. Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe handling:
Do not inhale vapors and fumes.
Do not store or use near heat, spark, open flame or other sources of ignition.
Ensure that workrooms are adequately ventilated.
Avoid skin and eye contact.
Gloves and safety glasses should be worn
Material can accumulate static charges which may cause an electrical spark.
Ground and bond all equipment as required (when transferring products).

Conditions for safe storage:
Keep container tightly sealed.
Store in a cool, dry place.
Do not store or use near heat, spark, open flame or other sources of ignition.
Store in a cool, well-ventilated place.
Do not expose to direct heat.
Refer to AS 1940: The Storage and Handling of Flammable and Combustible Liquids.
Store below 30°C. (86°F)

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
HEXANE (N-HEXANE) 110-54-3		20	72	-	-	-	-
ISOPROPYL ALCOHOL 67-63-0		400	983	-	-	-	-
ISOPROPYL ALCOHOL 67-63-0		-	-	-	-	500	1,230

Engineering controls:
Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

Eye protection:
Wear chemical goggles.

Skin protection:
Use of protective coveralls and long sleeves is recommended.
Use impervious gloves.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection:
If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance: brown
viscous
Odor: aromatic
Specific gravity: 1.15 - 1.17
Boiling point: 68 - 69 °C (154.4 - 156.2 °F)
Flash point: -15 °C (5 °F)
Density: 1.15 - 1.17 g/cm3
Solubility in water: Not soluble

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials: Oxidizing agents.
Strong acids.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

carbon monoxide
Carbon dioxide.
Oxides of nitrogen.

Section 11. Toxicological information

Health Effects:

Ingestion: Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin: May cause mild skin irritation.

Eyes: Symptoms may include severe irritation, pain, tearing, blurred vision.
Causes serious eye irritation.

Inhalation: Vapours may cause drowsiness and dizziness.

Toxicity for reproduction: Toxic to reproduction, category 2, Suspected of damaging fertility or the unborn child.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
n-Hexane	LD50	16,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
110-54-3	LC50	> 2,000 mg/kg	inhalation	24 h	rat	Oral Toxicity)
	LD50		dermal		rabbit	OECD Guideline 403 (Acute Inhalation Toxicity)
						not specified
Propan-2-ol	LD50	5,840 mg/kg	oral		rat	OECD Guideline 401 (Acute
67-63-0	LC50	72.6 mg/l	inhalation	4 h	rat	Oral Toxicity)
	LD50	12,870 mg/kg	dermal		rabbit	not specified
						not specified
Methyl acetate	LD50	6,482 mg/kg	oral		rat	OECD Guideline 401 (Acute
79-20-9	LC50	> 49.2 mg/l	inhalation	4 h	rabbit	Oral Toxicity)
	LD50	> 2,000 mg/kg	dermal		rat	not specified
						OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Propan-2-ol 67-63-0	slightly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Methyl acetate 79-20-9	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
n-Hexane 110-54-3	not irritating		rabbit	not specified
Propan-2-ol 67-63-0	moderately irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Methyl acetate 79-20-9	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
n-Hexane 110-54-3	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Propan-2-ol 67-63-0	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
n-Hexane 110-54-3	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
n-Hexane 110-54-3	negative negative	inhalation: vapour inhalation: vapour		mouse rat	not specified not specified
Propan-2-ol 67-63-0	negative with metabolic activation	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Propan-2-ol 67-63-0	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Methyl acetate 79-20-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Methyl acetate 79-20-9	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
n-Hexane 110-54-3	NOAEL=586 mg/kg	oral: gavage	90 d5 d/w	rat	not specified
n-Hexane 110-54-3	NOAEL=500 ppm	inhalation: vapour	90 d6 h/d; 5 d/w	mouse	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Propan-2-ol 67-63-0		inhalation: vapour	at least 104 w6 h/d, 5 d/w	rat	not specified
Methyl acetate 79-20-9		inhalation: aerosol	28 days/ 6 hours5 days a week	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
n-Hexane 110-54-3	LC50	> 1 - 10 mg/l	Fish			OECD Guideline 203 (Fish, Acute Toxicity Test)
n-Hexane 110-54-3	EC50	2.1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
n-Hexane 110-54-3	EC50	> 1 - 10 mg/l	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test)
n-Hexane 110-54-3	EC 50	> 1 - 10 mg/l	Bacteria			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Propan-2-ol 67-63-0	LC50	> 9,640 - 10,000 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Propan-2-ol 67-63-0	EC50	> 1,000 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propan-2-ol 67-63-0	NOEC	1,000 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propan-2-ol 67-63-0	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Methyl acetate 79-20-9	LC50	250 - 350 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Methyl acetate 79-20-9	EC50	1,026.7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methyl acetate 79-20-9	EC50	> 120 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methyl acetate 79-20-9	NOEC	120 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methyl acetate 79-20-9	EC10	1,830 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method

n-Hexane 110-54-3	readily biodegradable, but failing 10-day window	aerobic	> 60 %	not specified
Propan-2-ol 67-63-0	readily biodegradable	aerobic	70 - 84 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Methyl acetate 79-20-9	readily biodegradable	aerobic	70 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Methyl acetate 79-20-9	inherently biodegradable	aerobic	> 95 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)

Persistence and degradability:

Hazardous components **CAS-No.**	**Result**	**Route of application**	**Degradability**	**Method**

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
n-Hexane 110-54-3	4					not specified
Propan-2-ol 67-63-0	0.05					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Methyl acetate 79-20-9	0.18					other guideline:

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method

Section 13. Disposal considerations

Waste disposal of product: Special waste incineration or special disposal with the approval of the responsible local authority.
Dispose of according to regulations.

Disposal for uncleaned package: Collection and delivery to recycling enterprise or other registered elimination institution.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information:	Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.:	1133
Proper shipping name:	ADHESIVES
Class or division:	3
Packing group:	II
Hazchem code:	•3YE
Emergency information:	Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

Marine transport IMDG:

UN no.:	1133
Proper shipping name:	ADHESIVES
Class or division:	3
Packing group:	II
EmS:	F-E ,S-D
Seawater pollutant:	-

Air transport IATA:

UN no.:	1133
Proper shipping name:	Adhesives
Class or division:	3
Packing group:	II
Packing instructions (passenger)	353
Packing instructions (cargo)	364

Section 15. Regulatory information

SUSMP Poisons Schedule None

AICS: All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

Section 16. Other information

Abbreviations/acronyms:
ADGC - Australian Dangerous Goods Code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IMDG: International Maritime Dangerous Goods code
STEL - Short term exposure limit
TWA - Time weighted average

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 2,3,9,11,16

Date of previous issue: 13.01.2017

Disclaimer:

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