

LORD MATERIAL SAFETY DATA SHEET

CHEMLOK 205

1.1 PRODUCT NAME: CHEMLOK 205

1.2 COMPANY

LORD CHEMICAL PRODUCTS (AUSTRALIA) PTY. LTD.

ACN 085 209 712
21 Beverage Drive
Tullamarine
Victoria 3043
Australia

Phone: 03 - 9335 6620

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1.3 EMERGENCY

Telephone: 1800 033 111 - ANYTIME AUSTRALIA WIDE

1.4 RECOMMENDED USE

Elastomer Adhesive

2 COMPOSITION

Hazardous Ingredients	CAS No	%(w/v)	Hazardous Category	Risk Phases
Carbon Black	1333-86-4	1	Non-hazardous	-
Ethyl Benzene	100-41-4	3	Non-hazardous	-
Methyl Ethyl Ketone	78-93-3	2	Xi	R10, R20, R36/R37
Methyl Isobutyl Ketone	108-10-1	60	Xn	R11, R20, R36/R37
Xylene	1330-20-7	15	Xn	R10, R20/R21

3 HAZARDOUS IDENTIFICATION

Classified as hazardous according to the criteria of Worksafe Australia.

Hazard Category: Xn (HARMFUL)

UN Number 1133
Proper Shipping Name ADHESIVES containing flammable liquid
Dangerous Goods Class 3
Subsidiary Risk -
Hazchem Code 3[Y]E
Packing Group II
IERG Number 14
Poisons Schedule 5

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4 FIRST AID MEASURES

Swallowed: Immediately rinse mouth with water. DO NOT INDUCE vomiting. Give plenty water or milk to drink, then raw egg. Seek immediate medical assistance.

Eye: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash contaminated skin. Seek immediate medical assistance.

Skin: Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

Inhalation: Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until full recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

Poisons Information Centres in each State capital city can provide additional assistance for scheduled poisons.

Advice to Doctor: Treat symptomatically as for exposure to aromatic hydrocarbon solvents. Do not give epinephrine or related drugs. Aspiration can result in pulmonary oedema. Liquid paraffin BP may slow gastric absorption. Gastric lavage should only be undertaken after endotracheal intubation.

5 FIRE - FIGHTING MEASURES

Flammable liquid, (Class 3).

May form flammable vapour mixtures with air. Avoid all ignition sources. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Keep containers tightly closed. Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. Fire fighters to wear self contained breathing apparatus if risk of exposure to vapour or products of combustion/decomposition. During a fire, thermal decomposition or combustion may generate irritating and/or toxic gases and particulate.

EXTINGUISHING MEDIA: Water fog, foam, dry agent (carbon dioxide, dry chemical powder).

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6 ACCIDENTAL RELEASE MEASURES

Shut off possible sources of ignition. Avoid inhalation of vapours. Use self-contained breathing apparatus. Clear area of all unprotected personnel. Slippery when split. Avoid accidents, clean up immediately. Use absorbent (soil, sand or other inert materials). Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Contain – prevent run off into drains and waterways. For large spills notify Emergency Services. If contamination of sewers or waterways has occurred advise local Emergency Services.

7 HANDLING and STORAGE

Handling: Avoid skin and eye contact and inhalation of vapours. Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour respirator meeting the requirements of AS1715 and AS1716. Do not handle until all safety precautions have been read and understood. Keep closure tight and container upright to prevent leakage. Empty containers should not be re-used. Because empty containers may retain product residue and flammable vapours, keep away from heat, sparks and flame; do not cut, puncture or weld on or near the empty container. Do not smoke where this product is used or stored. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or reuse.

Storage: Store only in well-ventilated area. Store away from organic/combustible materials/oxidising agents/foodstuffs. Keep containers closed at all times – check regularly for leaks. Avoid thermal shock. Store in cool place and out of direct sunlight. Store away from sources of heat or ignition. Keep container closed when not in use.

8 EXPOSURE CONTROLS and PERSONAL PROTECTION

	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	NOTICES
Carbon Black	-	3	-	-	-
Ethyl Benzene	100	434	125	543	-
Methyl Ethyl Ketone	150	445	300	890	-
Methyl Isobutyl Ketone	50	205	75	307	-
Xylene	80	350	150	655	-

As published by the National Occupational Health and Safety Commission (Worksafe Australia).

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8 EXPOSURE CONTROLS and PERSONAL PROTECTION - continued

Exposure Standard (TWA) is the time weighted average airborne concentration over an eight-hour working day, for day working week over an entire working life. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

STEL (Short Term Exposure Limits) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

'Sen' notice – sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to minute levels of that substance.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Skin Protection: Use neoprene, nitrile or rubber gloves to prevent skin contact.

Eye Protection: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

Other Protective Equipment: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing and other protective equipment before storage or reuse. If inhalation risk exists wear organic vapour respirator meeting the requirements of AS1715 and AS1716.

Hygienic Practices: Always wash hands before smoking, eating, drinking or using the toilet. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

9 PHYSICAL and CHEMICAL PROPERTIES

Appearance	Grey liquid
Odour	Solvent
Specific Gravity	0.94
Vapour Pressure (kPa)	Not determined
Flash Point (°C)	19
Flammability Limits (v/v%)	1.0 – 11.4
Solubility Limits	Insoluble in H ₂ O
Boiling Range (°C)	79 – 139

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9 PHYSICAL and CHEMICAL PROPERTIES - continued

Freeze Point (°C)	Not determined
pH	Not applicable
% Volatile by volume	86.9
% Volatile by weight	75.5
Viscosity	Not available
Odour Threshold	Not determined

10 STABILITY and REACTIVITY

Stability: This product is stable under normal storage conditions.

Reactivity: Reacts with strong oxidising agents/acid/alkalis/water/moisture liberating flammable/toxic gas.

Hazardous decomposition products are carbon dioxide, carbon monoxide, chlorine, and hydrogen chloride. Phosgene. (1)

11 HEALTH HAZARDS and TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled are:

ACUTE EFFECTS

Swallowed: Harmful if swallowed. Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent complications.

Eye: May be an eye irritant.

Skin: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritate contact dermatitis.

Inhalation: Possible irritation of the respiratory system can occur causing a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath. May cause central nervous system depression characterised by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma. May cause respiratory sensitisation. (1)

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12 ECOLOGICAL INFORMATION

No environmental impact data found for this material, however for:

Carbon Black

No data found.

Ethyl Benzene (7)

96 hr LC50 (minnow, sheepshead, juvenile) (static): 280 mg/l

24 – 96 hr LC50 (bass, stripped, juvenile) (static): 4.3 mg/l

96 hr LC50 (mysidopsis) (static): 87.6 mg/l

96 hr LC50 (sunfish, bluegill) (static): 130 - 200 mg/l

48 hr LC50 (daphnia magna, <24 HR) (static): 50 - 120 mg/l

Methyl Ethyl Ketone

No data found.

Methyl Isobutyl Ketone

No data found.

Xylene (8)

24 – 96 hr LC50 (guppy) (static): 34.73 mg/l

24 – 96 hr LC50 (goldfish) (static): 36.81 mg/l

24 - 48 hr LC50 (sunfish, bluegill) (static): 24 mg/l

24 – 96 hr LC50 (minnow, flathead) (static): 28.77 mg/l

24 hr LC50 (daphnia magna, juvenile 24 HR) (static): 150 mg/l

13 DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Advise flammable nature. Normally suitable for disposal by approved agent.

14 TRANSPORT INFORMATION

SHIPPING NAME
Packing Group

ADHESIVES containing flammable liquid
II

Mode	Regulations	Class	Packing Group	Notes
-	UN	1133	II	
Sea	IMDG	Class 3	II	
Road/Rail	ADG Code	Class 3	II	
Air	IATA/ICAO	Class 3	II	

Classified as a Class 3 (FLAMMABLE LIQUID) Dangerous Substance for the purpose of transport. Refer to relevant regulations for storage and transport requirements.

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14 TRANSPORT INFORMATION - continued

Not to be loaded with explosives (Class 1), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), foodstuff or foodstuff empties, however exemptions may apply.

This material is a Scheduled Poison (S5) and must be stored, maintained and used in accordance with the relevant regulations.

15 REGULATORY INFORMATION

Classification and labelling according to Worksafe Australia's Code of Practice for Labelling Workplace Substances [NOHSC –2012 (1994)]

Hazard Symbol: Xn (HARMFUL)

R11 Highly flammable.

R20/R21 Harmful by inhalation and in contact with skin

R36/R37 Irritating to eyes and respiratory system.

S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S36/S37 Wear suitable protective clothing and gloves.

S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately.

S51 Use only in well ventilated areas.

16 OTHER INFORMATION

Exposure Limits: Worksafe Australia has not established A Workplace Exposure Standard for Atmospheric Contaminants in the Occupational Environment.

The information contained in this Safety Data Sheets does not replace any of the user's statutory duties in respect of performing an adequate assessment of any potential workplace risk which may occur as a result of the way in which the product is used. The user must carry out such assessments as are required by other health and safety legislation.

Principal References:

(1) Material Safety Data Sheet – CHEMLOK 205, LORD Corporation Inc. USA, 11 February 2009.

(2) ECDIN, 0037800 Carbon Black - 1333864, Human Health Effects, Carcinogenicity Summary, Occupational Poisoning Reports.

(3) Dangerous Properties of Industrial Materials, 8th Edition – Ethyl Benzene, 1994.

