

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name CA 8201, CA 8202, CA 8203 DESO. HS MILITARY H/G COLOUR RANGE (PRODUCT OBSOLETE)
Synonym(s) NSN: XXXX-66-150-9115
 CA8201 • CA8202 • CA8203 • DESO.HS MILITARY H/G COLOUR RANGE

1.2 Uses and uses advised against

Use(s) PAINT • POLYURETHANE COATING • TWO COMPONENT COATING • TWO COMPONENT POLYURETHANE SYSTEM

1.3 Details of the supplier of the safety data sheet

Supplier name PPG INDUSTRIES AUSTRALIA PTY. LTD. (ASC - AUSTRALIA)
Address 23 Ovata Drive, Tullamarine, VIC, Australia, 3043
Telephone (03) 9335 1557
Fax (03) 9335 3490
Email contact.aust@ppg.com
Website <http://www.ppg.com/coatings/aerospace/>

1.4 Emergency telephone number(s)

Emergency 1800 807 001

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS Classification(s) Flammable Liquids: Category 3
 Acute Toxicity: Oral: Category 4
 Aspiration Hazard: Category 1
 Acute Toxicity: Inhalation: Category 4

2.2 Label elements

Signal word DANGER

Pictograms



Hazard statement(s)

H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H332 Harmful if inhaled.

Prevention statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting equipment.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

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Response statement(s)

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 to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P330 Rinse mouth.
 P331 Do NOT induce vomiting.
 P370 + P378 In case of fire: Use appropriate media for extinction.

Storage statement(s)

P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Disposal statement(s)

P501 Dispose of contents/container in accordance with relevant regulations.

2.3 Other Hazards

No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS number	EC number	Content
IRON OXIDE (FE2O3)	1309-37-1	215-168-2	<40%
TITANIUM DIOXIDE	13463-67-7	236-675-5	<40%
METHYL AMYL KETONE	110-43-0	203-767-1	10 - 30%
MICA	12001-26-2	601-648-2	<30%
ACETYLACETONE	123-54-6	204-634-0	<10%
N-BUTYL ACETATE	123-86-4	204-658-1	<5%
XYLENE	1330-20-7	215-535-7	<5%
CARBON BLACK	1333-86-4	215-609-9	<2%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	remainder
BARIUM SULPHATE	7727-43-7	231-784-4	20 - 50%
POLYESTER POLYOL	Not Available	Not Available	10 - 30%
POLYESTER POLYOL	35484-93-6	Not Available	5 - 30%
PIGMENTS/EXTENDER(S)	Not Available	Not Available	<20%
BIS(2-ETHYLHEXYLOXYCARBONYLMETHYLTHIO)DIBUTYLSTANN	25168-24-5	246-703-8	<5%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Rinse mouth out with water and give plenty of water to drink.

First aid facilities Eye wash facilities and safety shower should be available.

4.2 Most important symptoms and effects, both acute and delayed

No information provided.

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4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

5.2 Special hazards arising from the substance or mixture

Flammable. May evolve carbon oxides and hydrocarbons when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones, etc when handling. Earth containers when dispensing fluids.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

3Y

3	Normal Foam (protein based foam that is not alcohol resistant).
Y	Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, preferably flammables store, removed from direct sunlight, incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation and fire protection systems. Plastic containers should only be used if approved for flammable liquids.

7.3 Specific end use(s)

No information provided.

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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Substance	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Barium sulphate	SWA (AUS)	--	10	--	--
Carbon black	SWA (AUS)	--	3	--	--
Iron oxide fume (Fe ₂ O ₃) (as Fe)	SWA (AUS)	--	5	--	--
Methyl n-amyl ketone	SWA (AUS)	50	233	--	--
Mica	SWA (AUS)	--	2.5	--	--
Tin, organic compounds (as Sn)	SWA (AUS)	--	0.1	--	0.2
Titanium dioxide (a)	SWA (AUS)	--	10	--	--
Xylene	SWA (AUS)	80	--	150	--
n-Butyl acetate	SWA (AUS)	150	713	200	950

Biological limits

Ingredient	Reference	Determinant	Sampling time	BEI
XYLENE	ACGIH BEI	Methylhippuric acids in urine	End of shift	1.5 g/g creatinine

8.2 Exposure controls

Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

PPE

Eye/Face

Wear splash-proof goggles.

Hand

Wear PVA or viton (R) gloves.

Body

Wear a PVC apron and safety boots and coveralls. When using large quantities or where heavy contamination is likely, wear saranex coveralls. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls.

Respiratory

Wear a Type A (Organic vapour) respirator. If sanding dry product, wear a Class P1 (Particulate) respirator. If spraying, with prolonged use, or if in confined areas, wear an Air-line respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	COLOURED LIQUID
Odour	CHARACTERISTIC ODOUR
Odour Threshold	NOT AVAILABLE
Flammability	FLAMMABLE
Flash Point	29°C (Approximately)
Boiling Point	100°C to 165°C
Melting Point	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE
pH	NOT AVAILABLE

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Specific Gravity	1.18 to 1.58
Solubility (water)	INSOLUBLE
Vapour Density	> 1 (Air = 1)
Vapour Pressure	NOT AVAILABLE
Upper Explosion Limit	NOT AVAILABLE
Lower Explosion Limit	NOT AVAILABLE
Partition Coefficient	NOT AVAILABLE
Autoignition Temperature	NOT AVAILABLE
Decomposition Temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive Properties	NOT AVAILABLE
Oxidising Properties	NOT AVAILABLE

9.2 Other information

% Volatiles 40 % to 45 %

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), heat and ignition sources.

10.6 Hazardous decomposition products

May evolve carbon oxides and hydrocarbons when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Health Hazard Summary No information provided.

No information provided.

No information provided.

No information provided.

No information provided.

IRON OXIDE (FE2O3) (1309-37-1)

LC50 (Inhalation): > 210 mg/m³/2wks (rat)

LD50 (Ingestion): > 5000 mg/kg (rat)

LDLo (Subcutaneous): 30 mg/kg (dog)

METHYL AMYL KETONE (110-43-0)

LCLo (Inhalation): 4000 ppm/4 hours (rat)

LD50 (Ingestion): 730 mg/kg (mouse)

LD50 (Intraperitoneal): 400 mg/kg (mouse)

LD50 (Skin): 12.6 ml/kg (rabbit)

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ACETYLACETONE (123-54-6)

LC50 (Inhalation): 5.1 mg/L/4hrs

LCLo (Inhalation): 1000 ppm/4hr (rat)

LD50 (Ingestion): 570 mg/kg (rat)

LD50 (Skin): 775 mg/kg (rabbit)

LDLo (Intraperitoneal): 400 mg/kg (rat)

LDLo (Skin): 20 mL/kg (guinea pig)

N-BUTYL ACETATE (123-86-4)

LC50 (Inhalation): 2000 ppm/4hours (rat)

LCLo (Inhalation): 67 g/m³/4hours (guinea pig)

LD50 (Ingestion): 3200 mg/kg (rabbit)

LDLo (Ingestion): 4700 mg/kg (guinea pig)

TCLo (Inhalation): 200 ppm (human)

XYLENE (1330-20-7)

LC50 (Inhalation): 4330–5984 ppm/6 hours (rat)

LCLo (Inhalation): 10000 ppm/6 hours (man)

LD50 (Ingestion): 4300 mg/kg (rat)

LD50 (Intraperitoneal): 1548 mg/kg (mouse)

LD50 (Skin): > 1700 mg/kg (rabbit)

LD50 (Subcutaneous): 1700 mg/kg (rat)

CARBON BLACK (1333-86-4)

LD50 (Ingestion): > 8000 mg/kg (rat)

BIS(2-ETHYLHEXYLOXYCARBONYLMETHYLTHIO)DIBUTYLSTANNANE (25168-24-5)

LD50 (Ingestion): 500 mg/m³ (rat)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information provided.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Results of PBT and vPvB assessment

No information provided.

12.6 Other adverse effects

Aliphatic hydrocarbons behave differently in the environment depending on their size. WATER: Light aliphatics volatilise rapidly from water (half life - few hours). Bioconcentration should not be significant. SOIL: Light aliphatics biodegrade quickly in soil and water, heavy aliphatics biodegrade very slowly. ATMOSPHERE: Vapour-phase aliphatics will degrade by reaction with hydroxyl radicals.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal

Mix components together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer/supplier for additional information (if required). Prevent contamination of drains and waterways as environmental damage may result.

Legislation

Dispose of in accordance with relevant local legislation.

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14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	Land Transport (ADG)	Sea Transport (IMDG/IMO)	Air Transport (IATA/ICAO)
14.1 UN number	1263	1263	1263
14.2 UN proper shipping name	PAINT or PAINT RELATED MATERIAL		
14.3 Transport hazard classes			
DG Class	3	3	3
Subsidiary risk(s)	None Allocated	-	-
14.4 Packing group	III	III	III
14.5 Environmental hazards		Marine Pollutant	
14.6 Special precautions for user			
Hazchem Code	3Y		
EMS		F-E, S-E	

15. REGULATORY INFORMATION

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

Poison schedule	Classified as a Schedule 5 Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).	
Classifications	F - Flammable Xn - Harmful	
Risk phrases	R10:	Flammable.
	R20/22:	Harmful by inhalation and if swallowed.
	R65:	Harmful: May cause lung damage if swallowed.
Safety phrases	S7:	Keep container tightly closed.
	S9:	Keep container in a well ventilated place.
	S13:	Keep away from food, drink and animal feeding stuffs.
	S23:	Do not breathe gas/fumes/vapour/spray (where applicable).
	S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S40:	To clean the floor and all objects contaminated by this material use [appropriate material to be specified by the manufacturer].
	S46:	If swallowed, contact a doctor or Poisons Information Centre immediately and show container or label.
	S51:	Use only in well ventilated areas.
	S53:	Avoid exposure - obtain special instructions before use.
	S60:	This material and its container must be disposed of as hazardous waste.
Inventory listing(s)	AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt.	

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15.2 Chemical safety assessment

No information provided.

16. OTHER INFORMATION

Additional information This product is used in conjunction with a range of PPG hardeners.

WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m ³	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value

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TWA Time Weighted Average

Report Status This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ('SDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this ChemAlert report, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this ChemAlert report.

Prepared By Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

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End of Report