

Safety Data Sheet

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SDS No.: 316211

V001.6

Date of issue: 19.04.2022

LOCTITE 243 MEDIUM STRENGTH THREADLOCKER known as 243 Thrdlock 10ML EN/JP A/P

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

Product name: LOCTITE 243 MEDIUM STRENGTH THREADLOCKER known as 243 Thrdlock

10ML EN/JP A/P

Threadlocker Intended use:

Supplier:

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

Australia

+61 (3) 9724 6444 Phone:

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

Skin irritation Category 2 Serious eye irritation Category 2A Skin sensitizer Category 1 Category 3

Target Organ Systemic Toxicant -

Single exposure

respiratory tract irritation

Hazard pictogram:



Signal word: Warning

LOCTITE 243 MEDIUM STRENGTH THREADLOCKER

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Hazard statement(s): H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary Statement(s):

Prevention: P261 Avoid breathing mist/vapours.

P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, eye protection, and face protection.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.

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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations.

Dangerous Goods information:

Not 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

General chemical description: Mixture

Type of preparation: Methacrylate resin based threadlocker

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Tetramethylene dimethacrylate	2082-81-7	20- < 30 %
2,4,6-Triallyloxy-1,3,5-triazine	101-37-1	< 10 %
Silane, dichlorodimethyl-, reaction products with	68611-44-9	< 10 %
silica		
Ethene, homopolymer	9002-88-4	< 10 %
Propane-1,2-diol	57-55-6	< 10 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	< 1 %
maleic acid	110-16-7	0.1-< 1 %
Acetic acid, 2-phenylhydrazide	114-83-0	< 1 %
non hazardous ingredients~		30- <= 60 %

Section 4. First aid measures

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Ingestion: Rinse mouth, do not induce vomiting, consult a doctor.

Skin: Rinse with running water and soap.

Seek medical advice.

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if Eyes:

necessary.

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

First Aid facilities: Eye wash

Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media: If product is involved in fire extinguish with dry powder, foam or carbon dioxide.

fire:

Decomposition products in case of In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides

(NOx) can be released. Irritating organic vapours.

Particular danger in case of fire: None

Special protective equipment for

fire-fighters:

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Section 6. Accidental release measures

Personal precautions: Avoid skin and eye contact.

Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains.

Clean-up methods: For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for

disposal.

Section 7. Handling and storage

Use only in well-ventilated areas. Precautions for safe handling:

Avoid skin and eye contact.

Store in a cool, well-ventilated place. Conditions for safe storage:

Do not expose to direct heat. Store in sealed original container.

Section 8. Exposure controls / personal protection

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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)
Nuisance dusts, inhalable dust 68611-44-9	Inhalable dust.		10				
Fumed silica (respirable dust) 68611-44-9	Respirable dust.		2				
Silica, Amorphous: Fumed silica (respirable dust) 68611-44-9	Respirable dust.		2				
NUISANCE DUSTS, INHALABLE DUST 9002-88-4	Inhalable dust.		10				
PROPANE-1,2-DIOL TOTAL: (VAPOUR & PARTICULATES) 57-55-6	Total vapour and particulates.	150	474				
PROPANE-1,2-DIOL: PARTICULATES ONLY 57-55-6	Particulate.		10				

Engineering controls: Ensure good ventilation/suction at the workplace.

Eye protection: Wear protective glasses.

Skin protection: Wear suitable protective clothing.

The use of chemical resistant gloves such as Nitrile is recommended.

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.

The use of chemical resistant gloves such as Neoprene or Natural Rubber is recommended

Respiratory protection: Use only in well-ventilated areas.

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: Blue

LiquidBlue Liquid

Odor: CharacteristicCharacteristic

pH: Not applicable, Product reacts with water.

Flash point: $> 93 \, ^{\circ}\text{C} \, (> 199.4 \, ^{\circ}\text{F})$

Density: 1.09 g/cm³

VOC content (2004/42/EC) 0.0 % (VOCV 814.018 VOC regulation CH)

Section 10. Stability and reactivity

Conditions to avoid: Keep away from heat, spark and flame.

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Incompatible materials: Strong acids and oxidizing agents.

Oxygen scavengers. Strong alkalis. Reducing agents.

Other polymerization initiators.

Hazardous decomposition

products:

In case of fire toxic gases can be released.

Irritating vapors. Oxides of carbon.

Hazardous polymerization: Will not occur.

Section 11. Toxicological information

LOCTITE 243 MEDIUM STRENGTH THREADLOCKER known as 243 Thrdlock 10ML EN/JP A/P

Health Effects:

May be harmful if swallowed. **Ingestion:** Skin: Causes skin irritation. May cause skin sensitization.

Causes serious eye irritation. Eyes:

Inhalation: May cause respiratory tract irritation.

Aggravated med.

condition:

Eye, skin, and respiratory disorders.

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Tetramethylene	LD50	10,066 mg/kg	oral		rat	equivalent or similar to OECD
dimethacrylate	LD50	> 3,000 mg/kg			rabbit	Guideline 401 (Acute Oral
2082-81-7			dermal			Toxicity)
						not specified
2,4,6-Triallyloxy-1,3,5-	LD50	753 mg/kg	oral		rat	OECD Guideline 401 (Acute
triazine	LD50	> 2,000 mg/kg			rabbit	Oral Toxicity)
101-37-1			dermal			OECD Guideline 402 (Acute
						Dermal Toxicity)
Silane, dichlorodimethyl-,	LD50	> 5,000 mg/kg	oral		rat	not specified
reaction products with	LD50	> 2,000 mg/kg			rat	not specified
silica			dermal			
68611-44-9						
Ethene, homopolymer	Acute	> 5,000 mg/kg	oral			Expert judgement
9002-88-4	toxicity	> 5 mg/l	inhalation			Expert judgement
	estimate	> 5,000 mg/kg	dermal			Expert judgement
	(ATE)					
	Acute					
	toxicity estimate					
	(ATE)					
	Acute					
	toxicity					
	estimate					
	(ATE)					
Propane-1,2-diol	LD50	22,000 mg/kg	oral	-	rat	not specified
57-55-6	LC50	> 317.042 mg/l	inhalation	2 h	rabbit	not specified
37 33 0	LD50	> 2,000 mg/kg	dermal	2 11	rabbit	not specified
α, α-dimethylbenzyl	LD50	382 mg/kg	oral		rat	other guideline:
hydroperoxide	LC50	1.370 mg/l	inhalation	4 h	rat	not specified
80-15-9	Acute	1,100 mg/kg	dermal			Expert judgement
	toxicity	1,200 11.81.8				
	estimate					
	(ATE)					
maleic acid	LD50	708 mg/kg	oral		rat	not specified
110-16-7	LD50	1,560 mg/kg			rabbit	not specified
			dermal			•
Acetic acid, 2-	LD50	270 mg/kg	oral		rat	not specified
phenylhydrazide						
114-83-0						

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not irritating	4 h	rabbit	not specified
Propane-1,2-diol 57-55-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
α, α-dimethylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
maleic acid 110-16-7	irritating	24 h	human	Patch Test

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Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not irritating		rabbit	not specified
Ethene, homopolymer 9002-88-4	not irritating	24 h	rabbit	FDA Guideline
Propane-1,2-diol 57-55-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
maleic acid 110-16-7	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Tetramethylene dimethacrylate 2082-81-7	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not sensitising	Patch-Test	human	human repeat insult patch test
Ethene, homopolymer 9002-88-4	not sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Propane-1,2-diol 57-55-6	not sensitising	Guinea pig maximisat ion test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
maleic acid 110-16-7	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid 110-16-7	sensitising	Mouse local lymphnod e assay (LLNA)	guinea pig	OECD Guideline 406 (Skin Sensitisation)

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Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	negative negative positive	in vitro mammalian chromosome aberration test bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		Ames Test Chromosome Aberration Test
Ethene, homopolymer 9002-88-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Propane-1,2-diol 57-55-6	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	without with and without		Ames Test OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane-1,2-diol 57-55-6	negative negative negative	oral: gavage intraperitoneal oral: gavage		rat mouse rat	not specified not specified not specified
α, α-dimethylbenzyl hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl hydroperoxide 80-15-9	negative	dermal		mouse	not specified
maleic acid 110-16-7	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	no data with and without		Ames Test OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	NOAEL=500 mg/kg	oral: feed	5-8 wdaily	rat	not specified
Propane-1,2-diol 57-55-6	NOAEL=1,700 mg/kg	oral: feed	2 yearsdaily	rat	not specified
Propane-1,2-diol 57-55-6	NOAEL=1000 mg/m3	inhalation	90 d6 h/d, 5 d/w	rat	not specified
α, α-dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified
maleic acid 110-16-7	NOAEL=>= 40 mg/kg	oral: feed	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

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General ecological information:

Do not empty into drains, soil or bodies of water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Tetramethylene	LC50	32.5 mg/l	Fish	48 h		DIN 38412-15
dimethacrylate 2082-81-7 Tetramethylene	EC50	9.79 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline
dimethacrylate 2082-81-7 Tetramethylene dimethacrylate	NOEC	2.11 mg/l	Algae	72 h	Desmodesmus subspicatus	201 (Alga, Growth Inhibition Test) OECD Guideline 201 (Alga, Growth
2082-81-7 Tetramethylene dimethacrylate	NOEC	20 mg/l	Bacteria	28 d	activated sludge, domestic	Inhibition Test) not specified
2082-81-7 2,4,6-Triallyloxy-1,3,5- triazine	LC50	4.36 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute
101-37-1 2,4,6-Triallyloxy-1,3,5- triazine	EC50	19.4 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp.
101-37-1						Acute Immobilisation Test)
2,4,6-Triallyloxy-1,3,5- triazine 101-37-1	EC0	5 mg/l	Bacteria	3 h		OECD Guideline 209 (Activated Sludge, Respiration
Silane, dichlorodimethyl-, reaction products with silica	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	Inhibition Test) OECD Guideline 203 (Fish, Acute
68611-44-9 Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	EC50	> 10,000 mg/l	Daphnia	24 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
Silane, dichlorodimethyl-, reaction products with silica	EC50	> 10,000 mg/l	Algae			Immobilisation Test) OECD Guideline 201 (Alga, Growth
68611-44-9 Ethene, homopolymer 9002-88-4	LC50	> 100 mg/l	Fish	96 h	Leuciscus idus	Inhibition Test) OECD Guideline 203 (Fish, Acute
Ethene, homopolymer 9002-88-4	EC0	> 1,000 mg/l	Bacteria	3 h	not specified	Toxicity Test) OECD Guideline 209 (Activated
Propane-1,2-diol 57-55-6	LC50	51,600 mg/l	Fish	96 h	Oncorhynchus mykiss	Sludge, Respiration Inhibition Test) OECD Guideline 203 (Fish, Acute
Propane-1,2-diol 57-55-6	EC50	18,340 mg/l	Daphnia	48 h	Ceriodaphnia dubia	Toxicity Test) other guideline:
Propane-1,2-diol 57-55-6	EC50	24,200 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propane-1,2-diol 57-55-6	NOEC	15,000 mg/l	Algae	14 d	Pseudokirchneriella subcapitata	
Propane-1,2-diol 57-55-6	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration
α, α-dimethylbenzyl hydroperoxide	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	Inhibition Test) OECD Guideline 203 (Fish, Acute
80-15-9 α, α-dimethylbenzyl hydroperoxide 80-15-9	EC50	18.84 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
						Immobilisation Test)

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α, α-dimethylbenzyl hydroperoxide 80-15-9	EC50	3.1 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	NOEC	1 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC10	70 mg/l	Bacteria	30 min	subspicatus)	not specified
maleic acid 110-16-7	LC50	> 245 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
maleic acid 110-16-7	EC50	42.81 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
						Immobilisation Test)
maleic acid 110-16-7	EC50	74.35 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	,
maleic acid 110-16-7	EC10	11.8 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
maleic acid 110-16-7	EC10	44.6 mg/l	Bacteria	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Tetramethylene dimethacrylate 2082-81-7	readily biodegradable	aerobic	84 %	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
2,4,6-Triallyloxy-1,3,5- triazine 101-37-1		aerobic	7 - 9 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not readily biodegradable.	not specified	> 0 - < 60 %	OECD 301 A - F
Ethene, homopolymer 9002-88-4	not readily biodegradable.	aerobic	1 %	ISO 10708 (BODIS-Test)
Propane-1,2-diol 57-55-6	readily biodegradable	aerobic	> 81.7 - 100 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	not readily biodegradable.	aerobic	3 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
maleic acid 110-16-7	readily biodegradable	aerobic	97.08 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

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

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Tetramethylene dimethacrylate 2082-81-7	3.1				OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method)
2,4,6-Triallyloxy-1,3,5- triazine 101-37-1	2.8			20 °C	not specified
Propane-1,2-diol 57-55-6	-1.07			20.5 °C	EU Method A.8 (Partition Coefficient)
α, α-dimethylbenzyl hydroperoxide 80-15-9		9.1	calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	1.6			25 °C	OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method)
maleic acid 110-16-7	-1.3			20 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0.74				not specified

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations.

Disposal for uncleaned package: After use, tubes, cartons and bottles containing residual product should be disposed of as

chemically contaminated waste in an authorised legal land fill site or incinerated.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the

Australian Code for the Transport of Dangerous Goods by Road and

Rail (ADG Code).

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Section 15. Regulatory information

SUSMP Poisons Schedule

None

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Section 16. Other information

Abbreviations/acronyms: ASCC - Australian Safety and Compensation Council

SUSMP - Standard for the Uniform Medicines of Medicines and Poisons

GHS: Globally Harmonized System CAS: Chemical Abstracts Service TWA - Time weighted average LD 50: Lethal Dose 50%

OECD: Organization for Economic Cooperation and Development

NOAEL: No Observed Adverse Effect Level

LC 50: Lethal Concentration 50%

IMDG: International Maritime Dangerous Goods code

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

AIIC - Australian Inventory of Industrial Chemicals (AIIC) AICIS - Australian Industrial Chemicals Introduction Scheme

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1-16

Date of previous issue: 15.05.2020

Disclaimer:

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