

Safety data sheet
as per regulation 1907/2006/EC (REACH) as amended and
supplemented

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· *Ít qf wevefg* TV19

· *Átcf g pco g* < **ACCELERATOR FOR ISOLATOR**

· *S040Tgixcpvf g p vllgf wgu qhvj g wdacpeg qt o kwtg cpf wgu cf xlugf ci clpw*

· *Crrdecvtp qhvj g wdacpeg 1yj g o kwtg* For professional use

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

IVM Chemicals srl Viale della Stazione 3 -27020 Parona (PV) Italy tel +39 038425441

1.3.2 Importer

Name: AKZOLUX AUSTRALIA T/as: SUPERIOR TIMBER COATINGS

Address: 13/257 COLCHESTER ROAD KILSYTH, VICTORIA, AUSTRALIA E-Mail: tom@stcoatings.com.au

· Information department:

Environmental Health and safety office hseoffice@ivmchemicals.com

· **Emergency telephone number:**

From 8.30am to 3.30pm (AEST) +61 03 9761 6899

Out of the above mentioned hours, Saturdays and Sundays and during periods of closure for holidays

please call: +61410 635 016

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· *EncuHdecvtp ceeqf lpi vj Tgi wrvtp* *GE+P q 3494H22:



GHS02 flame

Flam. Liq. 2 H225 *Highly flammable liquid and vapour.*



GHS08 health hazard

Repr. 2 H361d *Suspected of damaging the unborn child.*

STOT RE 2 H373 *May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.*

Asp. Tox. 1 H304 *May be fatal if swallowed and enters airways.*



GHS07

Skin Irrit. 2 H315 *Causes skin irritation.*

Eye Irrit. 2 H319 *Causes serious eye irritation.*

STOT SE 3 H336 *May cause drowsiness or dizziness.*

· **2.2 Label elements**

· *Ncdgnlpi ceeqf lpi vj Tgi wrvtp* *GE+P q 3494H22:

The product is classified and labelled according to the CLP regulation.

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Product code TV19
Trade name: ACC X PU PROD

		01) 001 -] 001 00
CAS: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22-XXXX	isobutyl acetate  Flam. Liq. 2, H225  STOT SE 3, H336	20-24.99%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-XXXX	toluene  Flam. Liq. 2, H225  Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336 Aquatic Chronic 3, H412	20-24.99%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-XXXX	butanone  Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336	5-9.99%
CAS: 16545-00-9 EINECS: 240-610-6 Reg.nr.: 01-2120770738-40-XXXX	Bis[2-(diethylamino)ethyl] adipate  Eye Dam. 1, H318  Skin Irrit. 2, H315	≥2.5-<3%
CAS: 100-37-8 EINECS: 202-845-2 Reg.nr.: 01-2119488937-14-XXXX	2-diethylaminoethanol  Flam. Liq. 3, H226  Acute Tox. 3, H311; Acute Tox. 3, H331  Skin Corr. 1B, H314  Acute Tox. 4, H302	<0.5%

· Cf f h k p n h q t o c v k p < For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

· I g p g t c n h q t o c v k p <

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

personal protective equipment for first aid responders is recommended. (please see section 8)

· Chgt h j c r v k p <

In case of unconsciousness place patient stably in side position for transportation.

· Chgt u n h p e q p v e v <

Remove contaminated clothing.

Immediately wash with water and soap, or a recognized skin cleanser, and rinse thoroughly.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary).

Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. I medical advise is needed have products container or label at hand.

· Chgt g { g e q p v e v <

Rinse opened eye for several minutes under running water. Then consult a doctor.

· Chgt u y c n q y h p i < Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by substances, see chap. 11th

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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In cases there is no reported deadline, it means that the product must be used within 8 months.

· Kplqto cvkqp cdqwwuxqtcig lp qpg eqo o qp uxqtcig hceklw <Not required.

· Hwtvj gt kplqto cvkqp cdqwwuxqtcig eqpfkklqp <

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s)

Those typical of the product and the instructions in the data sheet if required.

SECTION 8: Exposure controls/personal protection

· Cffkklqpcnklqto cvkqp cdqwwfgukip qhvgej plcnhceklw <No further data; see item 7.

8.1 Control parameters

· Kpitgfgpuy kj rto kxcnwguy cvtgs wkg o qplqtlpi cvvj gy qtrwceg <

141-78-6 ethyl acetate (25-29.99%)

WEL Short-term value: 1468 mg/m , 400 ppm
 Long-term value: 734 mg/m , 200 ppm

78-93-3 butanone (5-9.99%)

WEL Short-term value: 899 mg/m , 300 ppm
 Long-term value: 600 mg/m , 200 ppm
 Sk, BMGV

· FPGNu

141-78-6 ethyl acetate

Oral	DNEL	4.5 mg/kg bw/d (population)
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	1,468 mg/mc (Workers) 734 mg/mc (population)
	DNEL	734 mg/mc (Workers) 367 mg/mc (population)
Irritation of skin	DNEL	63 mg/kg bw/d (Workers) 37 mg/kg bw/d (population)

110-19-0 isobutyl acetate

Oral	DNEL	5 mg/kg bw/d (population)
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	600 mg/mc (Workers) 300 mg/mc (population)
	DNEL	300 mg/mc (Workers) 35.7 mg/mc (population)
Irritation of skin	DNEL acuto/agudo/ostre/aigu/acute/akut	5 mg/kg bw/d (population)
	DNEL	10 mg/kg bw/d (Workers) 5 mg/kg bw/d (population)

108-88-3 toluene

Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	384 mg/mc (Workers)
	DNEL	192 mg/mc (Workers)
Irritation of skin	DNEL	384 mg/kg bw/d (Workers)

78-93-3 butanone

Inhalative	DNEL	600 mg/mc (Workers)
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Irritation of skin	DNEL	1,161 mg/kg bw/d (Workers)
· RPGEu		
141-78-6 ethyl acetate		
PNEC Acqua dolce/water/woda słodka/eau/agua/		0.24 mg/L ()
PNEC Suolo/earth/suelo/ /		0.148 mg/kg ()
110-19-0 isobutyl acetate		
PNEC Acqua dolce/water/woda słodka/eau/agua/		0.17 mg/L ()
PNEC Suolo/earth/suelo/ /		0.0755 mg/kg ()
108-88-3 toluene		
PNEC Acqua dolce/water/woda słodka/eau/agua/		0.68 mg/L ()
PNEC Suolo/earth/suelo/ /		2.89 mg/kg ()
78-93-3 butanone		
PNEC Acqua dolce/water/woda słodka/eau/agua/		55.8 mg/L ()
PNEC Suolo/earth/suelo/ /		22.5 mg/kg ()
· Kpi tgf lgpuy kj dlqri kcniko kxcmgk		
78-93-3 butanone (5-9.99%)		
BMGV	70 µmol/L	
	Medium: urine	
	Sampling time: post shift	
	Parameter: butan-2-one	

· Cf fklqpnkphqt o cvkq < The lists valid during the making were used as basis.

· 8.2 Exposure controls

- Rgtuqpcnrtqvexg gs wlr o gpv<
 - I gpgtcnrtqvexg cpf j {i kpk o gcwngk<
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Store protective clothing separately.
 - Avoid contact with the eyes and skin.
 - Pregnant women should strictly avoid inhalation or skin contact.
 - Tgur kcvqt { rtqvexkq<
 - Short term filter device:
 - Filter AX



Suitable respiratory protective device recommended. (EN140)

- Rtqvexkq qhj cpf k<



Protective gloves

The glove material has to be impermeable and resistant to the product and in accordance with EN 374 and Directive 89/686/EEC.
 Due to missing tests no recommendation to the glove material can be given for the product.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· *O cvgtkcnghi npxgu*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· *Rgpgwtvqpp vto g qhi npxg o cvgtkcn*

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· *G{g rtqvewtqpp<*



Glasses (EN166) or other protective equipment

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· *I gpgtcnkplqto cvtqpp*

· *Crrgctcpeg<*

· *Hqto <*

Fluid

· *Eqvwt<*

According to product specification

· *Qf qwt<*

Characteristic

· *Qf qwt vj tguj qif<*

Not determined.

· *rJ /xcmwg<*

Not determined.

· *Ej cpi g lp eqpfhtqpp*

· *Ognkpi rqlpvltgg/lpi rqlpv<*

Undetermined.

· *Kplkncndqktpi rqlpvcpf dqktpi tcpi g<*

77 °C

· *Hrcuj rqlpv<*

-4 °C

· *Hrc o cdklv} *vqrlf. i cu<*

Not applicable.

· *Kpkhtqpp vgo rgtcwtg<*

405 °C

· *Fgeqo rqukhtqpp vgo rgtcwtg<*

Not determined.

· *Cwq/li phtqpp vgo rgtcwtg<*

Product is not selfigniting.

· *Gzr rqukxg rtqr gt vlgu<*

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· *Gzr rqukqpp rto lvk<*

· *Nqy gt<*

1.2 Vol %

· *Wrr gt<*

11.5 Vol %

· *Xcr qwt rtguwtg cv42 °C:*

105 hPa

· *Density at 20 °C:*

0.918 g/cm

· *Relative density*

Not determined.

· *Vapour density*

Not determined.

· *Evaporation rate*

Not determined.

· *Solubility in / Miscibility with*

· *water:*

Not miscible or difficult to mix.

· *Partition coefficient: n-octanol/water:*

Not determined.

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- **Viscosity:**
 - **Dynamic:** Not determined.
 - **Kinematic at 20 °C:** 40 s (ISO 4 mm)
- **Oxidising properties :** N.A.

- **Solvent content:**
 - **VOC and Total VOC**
(organic solvents + reactive solvents if any) 77.15 %
 - **VOC (EC)** 708.2 g/l

- **Solids content:** 22.9 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Typical of the product as indicated in the data sheet
- **10.2 Chemical stability**
The product is stable in normal conditions of storage and use recommended
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with strong acids and oxidising agents.
Vapours may form explosive mixtures with air
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**

In case of possible formation of combustion:
Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

141-78-6 ethyl acetate

Oral	LD50	4,934 mg/kg (rabbit)
Dermal	LD50	20,001 mg/kg (rabbit)
Inhalative	LC50/4 h	1,600 mg/l (mouse)
	LC0	22.6 ppm (mouse)

110-19-0 isobutyl acetate

Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
Inhalative	LC50/4 h	31 mg/l (mouse)

108-88-3 toluene

Oral	LD50	5,000 mg/kg (mouse)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	25.7 mg/l (mouse)

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78-93-3 butanone

Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	21 mg/l (mouse)

16545-00-9 Bis[2-(diethylamino)ethyl] adipate

Oral	LD50	3,720 mg/kg (mouse)
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100-37-8 2-diethylaminoethanol

Oral	LD50	1,320 mg/kg (mouse)
Dermal	LD50	883 mg/kg () ((Porcellino d'India))
Inhalative	LC50/4 h	4.6 mg/l (mouse)

- **Primary irritant effect:**
 - **Skin corrosion/irritation**
Causes skin irritation.
 - **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity**
Suspected of damaging the unborn child.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure**
May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

141-78-6 ethyl acetate

EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)

110-19-0 isobutyl acetate

EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)

108-88-3 toluene

EC50	134 mg/l (algae) (96 h)
	3.78 mg/l (daphnia) (48 h)
LC50 (96h)	5.5 mg/l (Fish)

78-93-3 butanone

EC50	2,029 mg/l (algae) (96 h)
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	308 mg/l (daphnia) (48 h)
LC50 (96h)	2,993 mg/l (Fish)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
 - **Additional ecological information:**
 - **General notes:**


Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
 Hand over to hazardous waste disposers.
 The code number of the product as is 080111
 - **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-----------------------------|
| · 14.1 UN-Number | |
| · ADR, IMDG, IATA | UN1263 |
| · 14.2 UN proper shipping name | |
| · ADR, IMDG, IATA | PAINT |
| · 14.3 Transport hazard class(es) | |
| · ADR, IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | II |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Warning: Flammable liquids. |
| · Danger code (Kemler): | 33 |
| · EMS Number: | F-E, S-E |

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· <i>Stowage Category</i>	B
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· <i>Transport/Additional information:</i>	
· ADR	
· <i>Limited quantities (LQ)</i>	5L
· <i>Excepted quantities (EQ)</i>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <i>Transport category</i>	2
· <i>Tunnel restriction code</i>	D/E
· IMDG	
· <i>Limited quantities (LQ)</i>	5L
· <i>Excepted quantities (EQ)</i>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <i>UN "Model Regulation":</i>	UN 1263 PAINT, 3, II

SECTION 15: Regulatory information

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

Directive n. : 80/1107/CEE, n. 82/605/CEE, n. 83/477/CEE, n. 86/188/CEE e n. 88/642/CEE, 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2002/44,2003/10/CE, 2003/18/CE , 2004/40/CE,2006/25

DIRECTIVE 2012/18/EU

P5c Flammable

Limit 1: 5000 t

Limit 2: 50000 t

· *Various regulations* For uses not regulated by D. 2004/42/EC-For professional use only

· *Qualifying quantity (tonnes) for the application of lower-tier requirements* 5,000 t

· *Qualifying quantity (tonnes) for the application of upper-tier requirements* 50,000 t

· *REGULATION (EC) No 1907/2006 ANNEX XVII* Conditions of restriction: 3, 48

· *National regulations:*

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· *Relevant phrases*

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

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H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** IVM Chemicals Srl

· **Contact:** Claudia Zanella

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids . Category 2

Flam. Liq. 3: Flammable liquids . Category 3

Acute Tox. 4: Acute toxicity . Category 4

Acute Tox. 3: Acute toxicity . Category 3

Skin Corr. 1B: Skin corrosion/irritation . Category 1B

Skin Irrit. 2: Skin corrosion/irritation . Category 2

Eye Dam. 1: Serious eye damage/eye irritation . Category 1

Eye Irrit. 2: Serious eye damage/eye irritation . Category 2

Repr. 2: Reproductive toxicity . Category 2

STOT SE 3: Specific target organ toxicity (single exposure) . Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2

Asp. Tox. 1: Aspiration hazard . Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard . Category 3

· **Sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments

Agency ECHA web site

INRS Fiche Toxicologique

· * **Data compared to the previous version altered.**

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