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SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: <u>VERDUNNING HH 55</u>
 Article number: VERDHH55 CAS Number: 78-93-3 EC number: 201-159-0 Index number: 606-002-00-3 Registration number 01-2119457290-43-xxxx UFI: QXHR-X0J9-300X-NCS0 1.2 Relevant identified uses of the substance or mixture and uses advised against Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU19 Building and construction work SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Product category PC9a Coatings and paints, thinners, paint removers PROC7 Industrial spraying PROC7 Industrial spraying PROC10 Roller application or brushing PROC19 Manual activities involving hand contact PPOC13 Treatment of articles by dipping and polyring
PROC13 Treatment of articles by dipping and pouring • Application of the substance / the mixture thinner for diluting coatings and cleaning of equipment
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Zandleven Coatings B.V. Snekertrekweg 57-59, 8912 AA Leeuwarden, Netherlands Tel: +31 58 2129545 Fax: +31 58 2155996 E-mail: info@zandleven.com Internet: www.zandleven.com
 Further information obtainable from: R&D department: sds@zandleven.com 1.4 Emergency telephone number: Nationaal Vergiftigingen Informatie +31 (0)88 755 8000 ORFILA (INRS) : + 33 (0)1 45 42 59 59 Centres Antipoison et de Toxicovigilance ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 0800 59 59 59 LYON: 04 72 11 69 11 MARSEILLE: 04 91 75 25 25 NANCY: 03 83 22 50 50 PARIS: 01 40 05 48 48 STRASBOURG: 03 88 37 37 TOULOUSE: 05 61 17 74 47 Giftnofrund er Charité, Berlin: 030/19240 Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord): 05551/19 240 Informationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord): 05551/19 240 Informationszentrum (ür Kinderheilkunde Universitätsklinikum Bonn: 0228/19240 Giftinformations- und Beratungszentrum für Vergiftungsfälle Klinik für Kinder- und Jugendmedizin Universitätsklinikum des Saarlandes: 06841/19240 Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen - Klinische Toxikologie - Universitätsklinikum: 0761/19240 Vergiftungs-Informations-Zentrale Zentrum für Kinder- und Jugendmedizin Universitätsklinikum des Saarlandes: 06841/19240 Vergiftungs-Informations-Zentrale Zentrum für Kinder- und Jugendmedizin
Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik: 089/19240 Supplier +31 (0)58 2677590 (during office hours)

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SECTION 2: Hazards identification · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 Flam. Liq. 2 H225 Highly flammable liquid and vapour. Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness. · 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labelling: butanone Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokina. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor if you feel unwell. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Additional information: EUH066 Repeated exposure may cause skin dryness or cracking. · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 78-93-3 butanone
- Identification number(s)
- · EC number: 201-159-0
- · Index number: 606-002-00-3

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.

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- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- $^{\circ}$ 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

- Ensure adequate ventilation.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- Information about fire and explosion protection:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
- Store in a cool location.
- Store material in original, well-closed packages in a cool, well-ventilated area according to local regulations.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Recommended storage temperature: 5 30 °C
- · 7.3 Specific end use(s) No further relevant information available.

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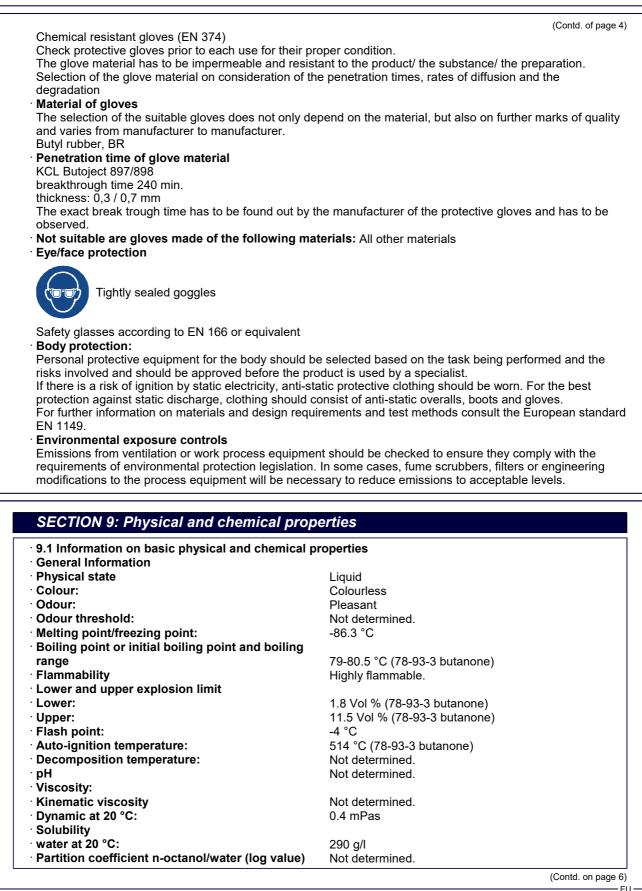
Ingreuler	ol parameters nts with limit values that require monito	ring at the workplace:
	-	
	hort-term value: 900 mg/m³, 300 ppm	
Lo	ong-term value: 600 mg/m³, 200 ppm	
DNEL (De	erived No Effect Level) for workers:	
78-93-3 b	outanone	
Dermal	Long-term - systemic effects, worker 1,	l61 mg/kg bw/day (worker)
Inhalative	Long-term - systemic effects, worker 60	0 mg/m³ (worker)
•	erived No Effect Level) for the general p	oolulation:
78-93-3 b		
Oral		pulation 31 mg/kg bw/day (general population)
Dermal		pulation 412 mg/kg bw/day (general population)
	Long-term - systemic effects, general po	
•	redicted No Effect Concentration) value	s:
78-93-3 b		EE 0 mm// (not on opicial)
-	ompartment - freshwater ompartment - marine water	55.8 mg/L (not specified) 55.8 mg/L (not specified)
-	ompartment - marine water ompartment - water, intermittent releases	U
-	ompartment - sediment in freshwater	284.7 mg/kg sed dw (not specified)
•	ompartment - sediment in marine water	284.7 mg/kg sed dw (not specified)
-	l compartment - soil	22.5 mg/kg dw (not specified)
	reatment plant	709 mg/L (not specified)
Oral secondary poisoning		
Oral seco	ndary poisoning	1,000 mg/kg food (not specified)
Additiona 8.2 Expos	al information: The lists valid during the r sure controls	naking were used as basis.
Additiona 8.2 Expose Use only v controls to controls to contamina vapour or Appropri- Individua General p Provide re Keep awa Immediato Wash har Avoid con Respirato In case of use self-c Filter type Respirato the safe v workers a respirator	al information: The lists valid during the r sure controls with adequate ventilation. Use process en o keep worker exposure to airborne ants below any recommended or statutory dust concentrations below any lower exp ate engineering controls No further data of protection measures, such as person protective and hygienic measures: eadily accessible eye wash stations and s ay from foodstuffs, beverages and feed. ely remove all soiled and contaminated cluds before breaks and at the end of work. that with the eyes and skin. Dry protection: f brief exposure or low pollution use respir iontained respiratory protective device. A r selection must be based on known or ar vorking limits of the selected respirator. If are exposed to concentrations above the e s. Use a properly fitted, air-purifying or air complying with an approved standard if a	naking were used as basis. closures, local exhaust ventilation or other engineering limits. The engineering controls also need to keep gas, osive limits. Use explosion-proof ventilation equipment. ; see section 7. al protective equipment afety showers. othing atory filter device. In case of intensive or longer exposure iticipated exposure levels, the hazards of the product and xposure limit, they must use appropriate, certified
Additiona 8.2 Expose Use only v controls to controls to Appropri- Individua General p Provide rea Keep awa Immediato Wash har Avoid con Respirato Filter type Respirato the safe v workers a respirator	al information: The lists valid during the r sure controls with adequate ventilation. Use process en o keep worker exposure to airborne ants below any recommended or statutory dust concentrations below any lower exp ate engineering controls No further data of protection measures, such as person protective and hygienic measures: eadily accessible eye wash stations and s ay from foodstuffs, beverages and feed. ely remove all soiled and contaminated cluds before breaks and at the end of work. that with the eyes and skin. Dry protection: f brief exposure or low pollution use respir iontained respiratory protective device. A r selection must be based on known or ar vorking limits of the selected respirator. If are exposed to concentrations above the e s. Use a properly fitted, air-purifying or air complying with an approved standard if a	naking were used as basis. closures, local exhaust ventilation or other engineering limits. The engineering controls also need to keep gas, osive limits. Use explosion-proof ventilation equipment. ; see section 7. al protective equipment afety showers. othing atory filter device. In case of intensive or longer exposure ticipated exposure levels, the hazards of the product and xposure limit, they must use appropriate, certified -fed

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· Vapour pressure at 20 °C:	105 hPa (78-93-3 butanone)
Density and/or relative density	, , , , , , , , , , , , , , , , , , ,
Density at 20 °C:	0.8-0.81 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
• 9.2 Other information	
· Appearance:	
Form:	Fluid
· Important information on protection of health a	and
environment, and on safety.	
· Ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
· Molecular weight	72.11 g/mol
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard clas	SSES
Explosives	Void
· Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
 Self-reactive substances and mixtures 	Void
 Pyrophoric liquids 	Void
 Pyrophoric solids 	Void
 Self-heating substances and mixtures 	Void
· Substances and mixtures, which emit flammab	ble
gases in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

78-93-3 butanone

Oral LD50 3,300 mg/kg (rat)

Dermal LD50 5,000 mg/kg (rabbit)

Primary irritant effect:

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

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- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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 Based on available data, the classification criteria are not met.
- \cdot STOT-single exposure May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards

• Endocrine disrupting properties

Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 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.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

· European waste catalogue

Luiopean	i waste catalogue
	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informat	ion
 14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA 	UN1193
 14.2 UN proper shipping name ADR/RID/ADN 	1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE)
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· IMDG, IATA	ETHYL METHYL KETONE (METHYL ETHYL KETONE)
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN, IMDG, IATA	
Class	3 Flammable liquids.
[·] Label	3
 14.4 Packing group ADR/RID/ADN, IMDG, IATA 	II
 14.5 Environmental hazards: Marine pollutant: 	No
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category 	Warning: Flammable liquids. 33 F-E,S-D B
 14.7 Maritime transport in bulk according to IM instruments 	IO Not applicable.
• Transport/Additional information:	
 ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
 Transport category Tunnel restriction code 	2 D/E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.

· Seveso category P5c FLAMMABLE LIQUIDS

- · 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
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

Substance is not listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

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Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

· Regulation (EC) No 273/2004 on drug precursors

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

• 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.
 Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. Contact: J. Dijkstra Date of previous version: 19.04.2023 Version number of previous version: 29 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Transport international des marchandises dangereuses par route (European Agreement Concerning the International Transport of Dangerous Goods by Raid) IMDG: International Maritime Code for Dangerous Goods Vo Road) IMDG: International Maritime Code for Dangerous Goods IAT: International Maritime Code for Dangerous Goods IAT: International Wartisting Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Prediced No-Effect Level (REACH) Versistent, Bioaccumulative and Toxic VPW: very Persistent and very Bioaccumulative Flam. 2: Flammable liquids – Category 2 Stort SE : Specific target organ toxicity (single exposure) – Category 3 Sources • ECHA European Chemical Agency - http://echa.europa.eu/information-on-chemicals • SDS of raw materials supplied by producer/supplier. * Data compared to the previous version altered. * Data compared to the previous version altered.