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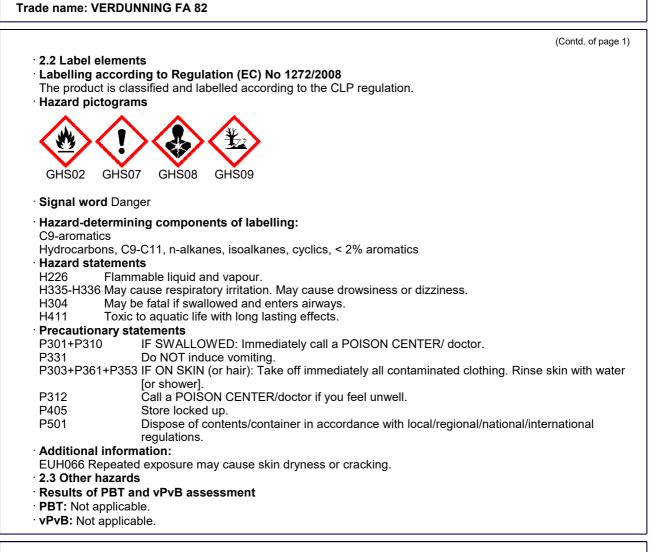
Revision: 06.02.2025

SECTION 1: Id	entification of the substance/mixture and of the company/undertaking
· 1.1 Product ident	fier
• Trade name: <u>VEF</u>	DUNNING FA 82
 Article number: \ UFI: V1ED-Y1M0- 1.2 Relevant iden 	
· Sector of Use	es: Uses of substances as such or in preparations at industrial sites
SU22 Profession Product category Process category	
PROC19 Manual PROC13 Treatm	pplication or brushing activities involving hand contact ent of articles by dipping and pouring
	substance / the mixture thinner for diluting coatings and cleaning of equipment
 Manufacturer/Su Zandleven Coating Snekertrekweg 57 	
E-mail: info@zanc	leven.com Internet: www.zandleven.com
 1.4 Emergency terms Nationaal Vergiftig +31 (0)88 755 800 ORFILA (INRS) : - Centres Antipoison ANGERS: 02 41 4 BORDEAUX: 05 5 LILLE: 0800 59 59 LYON: 04 72 11 6 MARSEILLE: 04 9 NANCY: 03 83 22 PARIS: 01 40 05 4 STRASBOURG: 0 TOULOUSE: 05 6 Giftnotruf der Cha Giftnotruf Erfurt Ge Sachsen-Anhalt un Informationsze der Johannes Gut Vergiftungs-Inform Giftnotruf Münche Supplier 	ingen Informatie 0 33 (0)1 45 42 59 59 1 et de Toxicovigilance 3 21 21 5 96 40 80 59 9 11 1 75 25 25 50 50 8 48 3 88 37 37 37 1 77 74 47 ité, Berlin: 030/19240 htrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-
SECTION 2: H	azards identification
	of the substance or mixture ording to Regulation (EC) No 1272/2008
Flam. Liq. 3	H226 Flammable liquid and vapour.
STOT SE 3	H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.
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SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

Percentages of the components are expressed as a percentage by weight

	C9-aromatics	75-100%
EC number: 918-668-5	🚸 Flam. Liq. 3, H226; 🚸 Asp. Tox. 1, H304; 🚸 Aquatic Chronic 2,	
Reg.nr.: 01-2119455851-35	H411; 🚸 Acuté Tox. 4, H312; STOT SE 3, H335-H336, EUH066	
EC number: 919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2%	10-25%
Reg.nr.: 01-2119463258-33		

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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.
- · After eye contact: Rinse opened eye for several minutes under running water.

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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- 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

· 6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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 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.
- · Recommended storage temperature: 5 30 °C
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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DNEL (Derived No Effect Level) for workers:		
128601-23-0 C9-aromatics		
	Long-term - systemic effects, worker	
Inhalative	Long-term - systemic effects, worker	151 mg/m³ (human)
• DNEL (Derived No Effect Level) for the general polulation:		

128601-23-0 C9-aromatics

Oral Long-term - systemic effects, general population 7.5 mg/kg bw/day (human) Dermal Long-term - systemic effects, general population 7.5 mg/kg bw/day (human)

Inhalative Long-term - systemic effects, general population 32 mg/m³ (human)

Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne

contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

• Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:

Provide readily accessible eye wash stations and safety showers.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter type A

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If

workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed

respirator complying with an approved standard if a risk assessment indicates this is necessary.

Hand protection



Protective gloves

Chemical resistant gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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.

Fluorocarbon rubber (Viton)

Penetration time of glove material KCL Vitoject 890

breakthrough time 480 min.

thickness: 0,7 mm

KCL Vitoject 890 / Ansell PVA

breakthrough time 480 min.

thickness: 0,7 mm / N/A

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

Not suitable are gloves made of the following materials: All other materials

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Tightly sealed goggles

Safety glasses according to EN 166 or equivalent

Body protection:

· Eye/face protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved before the product is used by a specialist.

If there is a risk of ignition by static electricity, anti-static protective clothing should be worn. For the best protection against static discharge, clothing should consist of anti-static overalls, boots and gloves. For further information on materials and design requirements and test methods consult the European standard EN 1149.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical pr	roperties
· General Information	Liquid
· Physical state	Liquid
· Colour:	According to product specification
· Odour:	Characteristic
Odour threshold:	Not determined.
• Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
range	36 °C (Hydrocarbons, C9-C11, n-alkanes, isoalkanes,
Flowmakility	cyclics, < 2% aromatics)
· Flammability	Flammable.
Lower and upper explosion limit	
· Lower:	0.7 Vol % (Hydrocarbons, C9, aromatics)
· Upper:	7.5 Vol % (Hydrocarbons, C9, aromatics)
Flash point:	40 °C
Auto-ignition temperature:	450 °C (Hydrocarbons, C9, aromatics)
• Decomposition temperature:	Not determined.
PH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	2 hPa (Hydrocarbons, C9, aromatics)
Density and/or relative density	
Density at 20 °C:	>0.85-<0.88 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
• 9.2 Other information	
· Appearance:	
Form:	Fluid
Important information on protection of health and	l
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
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· Change in condition		
· Evaporation rate	Not determined.	
· Information with regard to physical hazard c	lasses	
Explosives	Void	
· Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	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 flamm	able	
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:

128601-23-0 C9-aromatics Oral LD50 5,558-7,093 mg/kg (rat) Dermal LD50 2,000-3,160 mg/kg (rabbit) Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Oral LD50 >5,000 mg/kg (rat) Dermal LD50 >5,000 mg/kg (rab) Primary irritant effect: · Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met. · 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. • STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness. · STOT-repeated exposure Based on available data, the classification criteria are not met.

• **Aspiration hazard** May be fatal if swallowed and enters airways.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is 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
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Remark: Toxic for fish
- · 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. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

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

European	i waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS	
	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	
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity	
HP6	Acute Toxicity	
HP14	Ecotoxic	

· Uncleaned packaging:

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

SECTION 14: Transport informa	tion
Transport in accordance with ADR/RID, IN	/DG and ICAO/IATA.
· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	UN1263
· 14.2 UN proper shipping name · ADR/RID/ADN	1263 PAINT, ENVIRONMENTALLY HAZARDOUS
·IMDG	PAINT, MARINE POLLUTANT
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	(Contd. of page
ΙΑΤΑ	PAINT
14.3 Transport hazard class(es)	
ADR/RID/ADN, IMDG	
Class	3 Flammable liquids.
Label	3
ΙΑΤΑ	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR/RID/ADN, IMDG, IATA	Ш
14.5 Environmental hazards:	Product contains environmentally hazardous substances Hydrocarbons, C9, aromatics
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR/RID/ADN):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	30 F-E,S-E
Stowage Category	A
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
ADR/RID/ADN Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
······································	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 D/F
	D/E
IMDG	FL
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1
Exception quantities (Ew)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

 \cdot Named dangerous substances - ANNEX I None of the ingredients is listed.

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Seveso category

E2 Hazardous to the Aquatic Environment P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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

None of the ingredients is listed.

REGULATION (EU) 2019/1148

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

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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

None of the ingredients is listed.

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: 21
- · 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 Civil Aviation Organisation

ADR: Accord relatif au transport international 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)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids Category 3

Acute Tox. 4: Acute toxicity - Category 4

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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.