

*Printing date 08/15/2022* 

#### Version number 99

Reviewed on 08/15/2022

#### **1** Identification

- · Product identifier
  - · Product number PF55
  - Trade name: SOLVENT-BASED DYE ORANGE • Application of the substance / the mixture For professional use
- 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
  - Information department: Environmental Health and safety office hseoffice @ivmchemicals.com
  - Emergency telephone number: ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

### 2 Hazard(s) identification

#### · Classification of the substance or mixture

Flammable Liquids 3H226 Flammable liquid and vapor.Toxic to Reproduction 1BH360 May damage fertility or the unborn child.Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

Aquatic Acute 3 Aquatic Chronic 3 H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects.

#### · Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: 1-methoxy-2-propanol 2-methoxypropanol · Hazard statements H226 Flammable liquid and vapor. H360 May damage fertility or the unborn child. H336 May cause drowsiness or dizziness. H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. (Contd. on page 2)



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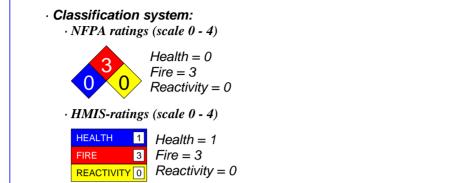
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#### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerou	is components:	
107-98-2	1-methoxy-2-propanol	75-100%
	<ul> <li>Flammable Liquids 3, H226</li> <li>Specific Target Organ Toxicity - Single Exposure 3, H336</li> </ul>	
72275-69-5	C.I. ACID ORANGE 139	2.5-4.99%
	Aquatic Chronic 2, H411 Aquatic Acute 2, H401	
112-34-5	2-(2-butoxyethoxy)ethanol	2.5-4.99%
	🚸 Eye Irritation 2A, H319	
1589-47-5	2-methoxypropanol	≥0.1-<0.5%
	<ul> <li>Flammable Liquids 3, H226</li> <li>Toxic to Reproduction 1B, H360</li> </ul>	
	<ul> <li>Eye Damage 1, H318</li> <li>Skin Irrititation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335</li> </ul>	

#### 4 First-aid measures

#### · Description of first aid measures

· General information:

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)
- · 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.
- · After swallowing: Do not induce vomiting; immediately call for medical help.

• Information for doctor:

- Most important symptoms and effects, both acute and delayed
- For symptoms and effects caused by substances, refer to Section 11.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

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### 5 Fire-fighting measures

#### · Extinguishing media

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- · Suitable extinguishing agents:
- Alcohol resistant foam
- Alcohol resistant foam, CO, powder, water spray/mist.
- · For safety reasons unsuitable extinguishing agents:
- Do not use a jet water stream as it may scatter and spread fire.
- · Special hazards arising from the substance or mixture

In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO)

· Advice for firefighters

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

• Protective equipment: Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

#### 6 Accidental release measures

Wear pro Ensure ac Keep awa Do not all Inform res Dilute with Do not all Methods Absorb w Dispose o Ensure ac See Sect See Sect See Sect	precautions, protective equipment and emergency procedures tective equipment. Keep unprotected persons away. dequate ventilation by from ignition sources <b>nental precautions:</b> ow product to reach sewage system or any water course. spective authorities in case of seepage into water course or sewage s in plenty of water. ow to enter sewers/ surface or ground water. <b>and material for containment and cleaning up:</b> ith liquid-binding material (sand, diatomite, acid binders, universal bind contaminated material as waste according to Section 13. dequate ventilation. <b>e to other sections</b> for 7 for information on safe handling. for 8 for information on personal protection equipment. ion 13 for disposal information. <b>e Action Criteria for Chemicals</b>	
· PAC-1		
107-98-2	1-methoxy-2-propanol	100 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
· PAC-2		
107-98-2	1-methoxy-2-propanol	160 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
· PAC-3		
107-98-2	1-methoxy-2-propanol	660 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
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#### 7 Handling and storage

#### · Handling:

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- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- Protect against electrostatic charges.
- Keep respiratory protective device available.
- Use explosion-proof apparatus / fittings and spark-proof tools.
- $\cdot$  Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.
- Keep respiratory protective device available.

#### · Conditions for safe storage, including any incompatibilities

- · Storage:
  - *Requirements to be met by storerooms and receptacles:* Provide solvent resistant, sealed floor.
  - Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
  - In cases where there is no reported expiration date , it means that the product must be used within 8 months.
  - · Information about storage in one common storage facility: Not required.
  - · Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) Those typical of the product and the instructions in the data sheet if required.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

#### · Control parameters

- · Components with limit values that require monitoring at the workplace:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
- At this time, the other constituents have no known exposure limits.

#### 107-98-2 1-methoxy-2-propanol

- REL Short-term value: 540 mg/m<sup>3</sup>, 150 ppm Long-term value: 360 mg/m<sup>3</sup>, 100 ppm
- TLV Short-term value: 100 ppm Long-term value: 50 ppm A4

#### 112-34-5 2-(2-butoxyethoxy)ethanol

- TLV Long-term value: 10\* ppm
  - \*Inhalable fraction and vapor

· Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

- · Personal protective equipment:
  - · General protective and hygienic measures:
    - 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.

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(Contd. of page 4) Pregnant women should strictly avoid inhalation or skin contact. · Breathing equipment: Short term filter device: Suitable respiratory protective device recommended. Filter A · Protection of hands: Protective gloves 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 The glove material has to be impermeable and resistant to the product . · 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. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Tightly sealed goggles 9 Physical and chemical properties

· Appearance:		
· Form:	Fluid	
· Color:	According to product specification	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Mixture is non-polar/aprotic.	
· Change in condition		
• Melting point/Melting range:	Undetermined.	
· Boiling point/Boiling range:	120.3 °C (248.5 °F)	
Flash point:	35 °C (95 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	225 °C (437 °F)	
· Decomposition temperature:	Not determined.	



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· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formati	on of explosiv
	air/vapor mixtures are possible.	
· Explosion limits:		
- Lower:	0.9 Vol %	
· Upper:	~20 Vol %	
· Vapor pressure at 20 •C (68 •F):	12 hPa (9 mm Hg)	
· Density (+/- 0,03) at 20 °C (68 °F):	0.914 g/cm³ (7.627 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not determined.	
· Partition coefficient (n-octanol/water	): Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
• <i>Kinematic at 20</i> • <i>C</i> (68 • <i>F</i> ):	40 s (ISO 4 mm)	
• Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	93.51 %	
	854.7 g/l / 7.13 lb/gal	
· Solids content:	6.5 %	
Other information (HAPS)		
112-34-5 2-(2-butoxyethoxy)ethanol		2.5-4.99%
• Other information	No further relevant information available.	

### 10 Stability and reactivity

· Reactivity typical of the product as indicated in the data sheet

- **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.
- · Possibility of hazardous reactions Vapours may form explosive mixtures with air
- · Conditions to avoid No further relevant information available.
- $\cdot$  Incompatible materials: Acids, alkalis and oxidizing agents
- · Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

#### · Information on toxicological effects

• Acute toxicity:

· LD	/LC50 valu	es that are relevant for classification:
107-98-2	1-methox	y-2-propanol
Oral	LD50	4,016 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
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labolativa		(Contd. of	pag
		h 5,001 mg/l (mouse)	
		CID ORANGE 139	
Oral	LD50	5,001 mg/kg (mouse)	
	-	oxyethoxy)ethanol	
Oral	LD50	6,600 mg/kg (mouse)	
Dermal	LD50	2,764 mg/kg (rabbit)	
Sen Additio May d	on the eye. sitization: onal toxico amage fei	n: ejjett. n: No irritant effect. n: No irritating effect. No sensitizing effects known. Pological information: rtility or the unborn child. vsiness or dizziness.	
		categories	
	-	ternational Agency for Research on Cancer - Cl. 1 and 2)	
		ients is listed.	
	-		
		ional Toxicology Program)	
None of t	he ingredi	ients is listed.	
	OSHA-Ca	(Occupational Safety & Health Administration)	
None of t	he ingredi	ients is listed.	
	Harmful to c toxicity:	o aquatic life with long lasting effects.	
-	-	xy-2-propanol	
EC50		) mg/l (daphnia) (48 h)	
		• • • • • • •	
•		mg/l (Fish)	
	-	oxyethoxy)ethanol	
EC50		mg/l (daphnia) (48 h)	
•	1	mg/l (Leuciscus idus melanotus)	
		legradability No further relevant information available.	
		y biodegradable	
		xy-2-propanol	
	•	oxyethoxy)ethanol .	
· Bioacc · Mobilia · Ecotoxic · Remar · Addition · Genera Water	umulative ty in soil N <b>al effects</b> k: Harmfu <b>al ecolog</b> Il notes: hazard cla	ul to fish <b>jical information:</b> lass 1 (Self-assessment): slightly hazardous for water	
sewag	t allow un le system.	ndiluted product or large quantities of it to reach ground water, water cou	irse
Harmf	ul to aqua	a <i>tic organisms</i> (Contd. on	

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# coatings & polymers technologies

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· Other adverse effects No further relevant information available.

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## **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

· Uncleaned packagings:

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

• Recommended cleansing agent: Water, if necessary with cleansing agents.

· DOT, IMDG, IATA     · Note UN proper shipping name     · DOT     · IMDG, IATA Transport hazard class(es)	UN1263 Check viscosity and flash point at section 9 Paint PAINT
<i>JN proper shipping name · DOT · IMDG, IATA</i>	Paint
· DOT · IMDG, IATA	
· DOT · IMDG, IATA	
	PAINT
Transport hazard class(es)	
·DOT	
FLAMMABLE LIQUO	
3	
· Class	3 Flammable liquids
· Label	3
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
Packing group	
· DOT, IMDG, IATA	<i>III</i>
Environmental hazards:	
· Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler	r code): 30
• EMS Number:	<i>F-E,<u>S-E</u></i>



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· Stowage Category	A
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	Il of Not applicable.
· Transport/Additional information:	
· IMDG	
· Limited quantities (LQ)	5L
$\cdot$ Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging
	1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III

## 15 Regulatory information

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

Requirements of Federal Register

· Various regulations

· SARA

Section 355 (extremely hazardous substances):  None of the ingredients is listed.	
• Section 313 (Specific toxic chemical listings) :	
112-34-5 2-(2-butoxyethoxy)ethanol	2.5-4.99
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
1589-47-5 2-methoxypropanol	≥0.1-<0.5
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
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Chemicals

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·NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

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

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

#### **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.

· Department issuing SDS: IVM Chemicals Srl

· Contact: See emergency phone

· Date of preparation / last revision 08/15/2022 / 98

· Abbreviations and acronvms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 3: Flammable liquids - Category 3 Skin Irrititation 2: Skin corrosion/irritation - Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Toxic to Reproduction 1B: Reproductive toxicity - Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 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 IARC International agency for research on cancer • \* Data compared to the previous version altered.

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