

1 Identification

- **Product identifier**
 - *Product number* XGC37
 - *Trade name:* **PASTE FOR HEADS AND RUNS**
 - *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**



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Flam. Liq. 4 H227 Combustible liquid. Flam. Liq. 4

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 3 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*



GHS07

- *Signal word* Warning

- *Hazard-determining components of labeling:*

3-Iodo-2-propynylbutylcarbamate

Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

- *Hazard statements*

H227 Combustible liquid. Flam. Liq. 4

H317 May cause an allergic skin reaction.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

- *Precautionary statements*

P210 Keep away from flames and hot surfaces. . No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P363 Wash contaminated clothing before reuse.

(Contd. on page 2)

Product number XGC37

Trade name: PASTE FOR HEADS AND RUNS

(Contd. of page 1)

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

· **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 2

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *0

Fire = 2

Reactivity = 0

3 Composition/information on ingredients

Chemical characterization: Mixtures

· **Description:** Mixture: consisting of the following components.

Dangerous components:

34590-94-8	Dipropylene glycol monomethyl ether Flam. Liq. 4, H227	1-<5%
57-55-6	Propylene glycol	1-2.49%
111-76-2	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Flam. Liq. 4, H227	1-2.49%
55406-53-6	3-Iodo-2-propynylbutylcarbamate ⚠ Acute Tox. 3, H331 ⚠ STOT RE 1, H372 ⚠ Eye Dam. 1, H318 ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.5-<1%
	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene) ⚠ Aquatic Chronic 2, H411 ⚠ Skin Sens. 1, H317	≥0.5-<1%

4 First-aid measures

Description of first aid measures

General information:

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 and to be sure call for a doctor.

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

(Contd. on page 3)

Product number XGC37

Trade name: PASTE FOR HEADS AND RUNS

(Contd. of page 2)

- *After skin contact:* Immediately wash with water and soap and rinse thoroughly.
- *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.

5 Fire-fighting measures

- **Extinguishing media**
 - *Suitable extinguishing agents:*
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **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

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **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.
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
57-55-6	Propylene glycol	30 mg/m
55406-53-6	3-Iodo-2-propynylbutylcarbamate	3.3 mg/m
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
· PAC-2:		
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm

(Contd. on page 4)

Product number XGC37

Trade name: PASTE FOR HEADS AND RUNS

(Contd. of page 3)

57-55-6	Propylene glycol	1,300 mg/m
55406-53-6	3-Iodo-2-propynylbutylcarbamate	36 mg/m
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
· PAC-3:		
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
57-55-6	Propylene glycol	7,900 mg/m
55406-53-6	3-Iodo-2-propynylbutylcarbamate	220 mg/m
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm

7 Handling and storage

· Handling:

· *Precautions for safe handling* No special precautions are necessary if used correctly.

· *Information about protection against explosions and fires:*

Keep ignition sources away - Do not smoke.

· Conditions for safe storage, including any incompatibilities

· Storage:

· *Requirements to be met by storerooms and receptacles:*

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.

Take on temperature greater than 5 ° C

· *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.

34590-94-8 Dipropylene glycol monomethyl ether

PEL	Long-term value: 600 mg/m , 100 ppm Skin
REL	Short-term value: 900 mg/m , 150 ppm Long-term value: 600 mg/m , 100 ppm Skin
TLV	Short-term value: 909 mg/m , 150 ppm Long-term value: 606 mg/m , 100 ppm Skin

57-55-6 Propylene glycol

WEEL	Long-term value: 10 mg/m
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(Contd. on page 5)

Product number XGC37

Trade name: PASTE FOR HEADS AND RUNS

(Contd. of page 4)

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BEI 200 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: Butoxyacetic acid with hydrolysis

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

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

· Breathing equipment: Not required.

· 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: Goggles recommended during refilling.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:

Fluid

· Color:

According to product specification

· Odor:

Characteristic

· Odor threshold:

Not determined.

· pH-value:

Not determined.

· Change in condition

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

100 °C (212 °F)

· Flash point:

65 °C (149 °F)

· Flammability (solid, gaseous):

Not applicable.

· Ignition temperature:

240 °C (464 °F)

(Contd. on page 6)

Product number XGC37

Trade name: PASTE FOR HEADS AND RUNS

(Contd. of page 5)

· <i>Decomposition temperature:</i>		Not determined.
· <i>Auto igniting:</i>		Product is not selfigniting.
· <i>Danger of explosion:</i>		Not determined.
· <i>Explosion limits:</i>		
· <i>Lower:</i>		1.1 Vol %
· <i>Upper:</i>		14 Vol %
· <i>Vapor pressure at 20 °C (68 °F):</i>		1.2 hPa (0.9 mm Hg)
· <i>Density at 20 °C (68 °F):</i>		1.019 g/cm (8.504 lbs/gal)
· <i>Relative density</i>		Not determined.
· <i>Vapor density</i>		Not determined.
· <i>Evaporation rate</i>		Not determined.
· <i>Solubility in / Miscibility with</i>		
· <i>Water:</i>		Not miscible or difficult to mix.
· <i>Partition coefficient (n-octanol/water):</i>		Not determined.
· <i>Viscosity:</i>		
· <i>Dynamic:</i>		Not determined.
· <i>Kinematic at 20 °C (68 °F):</i>		40 s (ISO 4 mm)
· <i>Oxidising properties:</i>		N.A.
· <i>Solvent content:</i>		
· <i>Water:</i>		73.0 %
· <i>VOC content:</i>		6.42 %
		65.4 g/l / 0.55 lb/gl
· <i>Solids content:</i>		20.2 %
· Other information (HAPS)		
112-34-5	2-(2-butoxyethoxy)ethanol	0.5-1%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	<0.1%
· 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** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

US

(Contd. on page 7)

Product number XGC37

Trade name: PASTE FOR HEADS AND RUNS

(Contd. of page 6)

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

34590-94-8 Dipropylene glycol monomethyl ether

Oral	LD50	5,135 mg/kg (mouse)
Dermal	LD50	19,020 mg/kg (rabbit)

57-55-6 Propylene glycol

Oral	LD50	20,000 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)

111-76-2 2-butoxyethanol

Oral	LD50	1,480 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rab)

55406-53-6 3-Iodo-2-propynylbutylcarbamate

Oral	LD50	500 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (mouse)

Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Oral	LD50	5,001 mg/kg (mouse) (OECD - 401)
Dermal	LD50	2,001 mg/kg (mouse) (OECD - 402)

· Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

Irritant

Contains 3-Iodo-2-propynylbutylcarbamate, Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene). May produce an allergic reaction.

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity Harmful to aquatic life with long lasting effects.

(Contd. on page 8)

Product number XGC37

Trade name: PASTE FOR HEADS AND RUNS

(Contd. of page 7)

· <i>Aquatic toxicity:</i>	
34590-94-8 Dipropylene glycol monomethyl ether	
EC50	970 mg/l (algae) (72 h) 1,919 mg/l (daphnia) (48 h)
LC50 (96h)	1,001 mg/l (Fish)
57-55-6 Propylene glycol	
EC50	19,000 mg/l (algae) (48 h) 18,340 mg/l (daphnia) (48 h)
LC50 (96h)	40,613 mg/l (Fish)
111-76-2 2-butoxyethanol	
EC50	101 mg/l (daphnia) (24 h)
LC50 (96h)	101 mg/l (Fish)
55406-53-6 3-Iodo-2-propynylbutylcarbamate	
EC50	22 mg/l (algae) (72 h) 0.16 mg/l (daphnia) (48 h)
LC50 (96h)	67 mg/l (Fish)
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	
EC50	101 mg/l (algae) (72h) 4 mg/l (daphnia) (OECD linee guida 202 parte 1)
LC50 (96h)	2.8 mg/l (Leuciscus idus melanotus) (OECD linee guida 203)
· Persistence and degradability No further relevant information available.	
· <i>Substances Easily biodegradable</i>	
34590-94-8	Dipropylene glycol monomethyl ether .
57-55-6	Propylene glycol .
111-76-2	2-butoxyethanol .

· **Behavior in environmental systems:**

- *Bioaccumulative potential* No further relevant information available.
- *Mobility in soil* No further relevant information available.

· **Ecotoxicological effects:**

- *Remark:* Harmful to fish

· **Additional ecological information:**

- *General notes:*
Water hazard class 2 (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.
Harmful to aquatic organisms

· **Other adverse effects** No further relevant information available.

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.

(Contd. on page 9)

Product number XGC37

Trade name: PASTE FOR HEADS AND RUNS

(Contd. of page 8)

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

· **Uncleaned packagings:**

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

14 Transport information

· **UN-Number**

· DOT, ADN, IMDG, IATA

Not applicable

· **UN proper shipping name**

· DOT, ADN, IMDG, IATA

Not applicable

· **Transport hazard class(es)**

· DOT, ADR, ADN, IMDG, IATA

· Class

Not applicable

· **Packing group**

· DOT, IMDG, IATA

Not applicable

· **Environmental hazards:**

· Marine pollutant:

No

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

Not applicable

15 Regulatory information

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

Requirements of Federal Register

· SARA

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings) :**

111-76-2	2-butoxyethanol	1-2.49%
55406-53-6	3-Iodo-2-propynylbutylcarbamate	≥0.5-<1%
112-34-5	2-(2-butoxyethoxy)ethanol	0.5-1%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	<0.1%
1336-21-6	ammonia	<0.1%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

(Contd. on page 10)

Product number XGC37

Trade name: PASTE FOR HEADS AND RUNS

(Contd. of page 9)

· 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)

111-76-2	2-butoxyethanol	NL	1-2.49%
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· TLV (Threshold Limit Value established by ACGIH)

111-76-2	2-butoxyethanol	A3
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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 05/10/2018 / 26

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

BEI: Biological Exposure Limit

Flam. Liq. 4: Flammable liquids . Category 4

Acute Tox. 4: Acute toxicity . Category 4

Acute Tox. 3: Acute toxicity . Category 3

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

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

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

Skin Sens. 1: Skin sensitisation . Category 1

STOT RE 1: Specific target organ toxicity (repeated exposure) . Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard . Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard . Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard . Category 1

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

(Contd. on page 11)

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 05/10/2018

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Product number XGC37**Trade name: PASTE FOR HEADS AND RUNS**

(Contd. of page 10)

Agency ECHA web site
INRS Fiche Toxicologique
IARC International agency for research on cancer

US