Safety Data Sheet Murin Dife Pasta

Safety Data Sheet dated 25/10/2023 version 8

In accordance with Regulation (UE) 2020/878



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

1.1. Product identifier

Mixture identification:

Trade name: Murin Dife Pasta UFI: PF10-J09A-X00D-W9X4

Authorization of Ministry of Health no: Italian Ministry of Health authorization no IT/2012/00075/AUT

IE/BPA70720

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: rodenticide

Uses advised against: All uses not listed in the Recommended uses

1.3. Details of the supplier of the safety data sheet

Company: VEBI ISTITUTO BIOCHIMICO SRL

Via Desman, 43 - 35010 Borgoricco (PD) Tel. +39 049 9337111 - www.vebi.it

Responsable: regulatory@vebi.it

1.4. Emergency telephone number

United Kingdom Emergency number: 111

Ireland National Poisons Information Centre: 353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week). Healthcare Professionals: +353 (1)

809 2566 (24 hour service)

VEBI ISTITUTO BIOCHIMICO customer service: Tel. +39 49 9337111 8:00-12:00- 13:00- 17:00

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Repr. 1B May damage the unborn child.

STOT RE 2 May cause damage to organs (blood) through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Dange

Hazard statements

H360D May damage the unborn child.

H373 May cause damage to organs (blood) through prolonged or repeated exposure.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves.

P308+P313 IF exposed or concerned: Get medical advice.

P501 Dispose of contents and container in accordance with national regulation.

Contains

Date 25/10/2023 Production Name Murin Dife Pasta Page n. 1 of 11

Special provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration \geq 0.1%.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: Murin Dife Pasta

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number	Material Properties
≥ 7 - < 10 %	sucrose	CAS:57-50-1 EC:200-334-9	Not classified as hazardous		
0.05 %	bronopol (INN); 2-bromo-2- nitropropane-1,3-diol	CAS:52-51-7 EC:200-143-0 Index:603-085- 00-8	3.8/3 STOT SE 3, H335; 3.2/2 Skin Irrit. 2, H315; 3.3/1 Eye Dam. 1, H318; 4.1/A1 Aquatic Acute 1, H400; 3.1/4/Oral Acute Tox. 4, H302; 3.1/4/Dermal Acute Tox. 4, H312, M:10	01-2119980938-15- XXXX	
50 ppm	difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin	EC:259-978-4	3.7/1B Repr. 1B, H360D 3.1/1/Ora Acute Tox. 1, H300 3.1/1/Dermal Acute Tox. 1, H310 3.1/1/Inhal Acute Tox. 1, H330 3.9/1 STOT RE 1, H372 4.1/A1 Aquatic Acute 1, H400 4.1/C1 Aquatic Chronic 1, H410, M-Chronic:10, M-Acute:10		РВТ
			Specific Concentration Limits: $0.003\% \le C < 100\%$: Repr. 1B H360D $0.02\% \le C < 100\%$: STOT RE 1 H372 $0.002\% \le C < 0.02\%$: STOT RE 2 H373		
30 ppm	2,3-Butanedione	CAS:431-03-8 EC:207-069-8	2.6/2 Flam. Liq. 2, H225; 3.1/3/Inhal Acute Tox. 3, H331; 3.1/4/Oral Acute Tox. 4, H302; 3.9/2 STOT RE 2, H373; 3.3/1 Eye Dam. 1, H318; 3.2/2 Skin Irrit. 2, H315; 3.4.2/1 Skin Sens. 1, H317		
10 ppm	Denatonium Benzoate	CAS:3734-33-6 EC:223-095-2	3.1/4/Oral Acute Tox. 4, H302; 3.1/2/Inhal Acute Tox. 2, H330; 3.3/1 Eye Dam. 1, H318		

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

Date 25/10/2023 Production Name Murin Dife Pasta Page n. 2 of 11

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

Active ingredient is a so-called second generation anticoagulant rodenticide, which like other Coumarin derivatives, is a vitamin K antagonist. It disrupts the normal blood clotting mechanisms resulting in profuse internal haemorrhage and death.

- Harmful to skin contact; could be absorbed and cause internal hemorrhage.
- Harmful if swallowed; serious risk of internal hemorrhage
- Harmful if inhaled; serious risk of internal hemorrhage
 - Soil and water could be contaminated.
 - Symptoms may be associated to increased bleeding tendency.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: The anticoagulant rodenticide active substances work by blocking the regeneration of vitamin K 2,3-epoxide to vitamin K hydroquinone. Since, the amount of vitamin K in the body is finite, the progressive block of the regeneration of vitamin K will lead to an increasing probability of a fatal hemorrhage.

- 1.To check the prothrombinic activity many times, also after a few days, particularly if the quantity swallowed is high. Diagnosis: changes in prothrombin time (symptoms and clotting tests)
- 2.Treatment: vitamin K1.
- 3. In animals and particularly in pets, vitamin K1 can be given even in absence of alterations of the coagulation, because of the gravity of the hemorrhage which can appear in case of ingestion.

Other Medical data:

No significant effects caused by active ingredient in personnel with occupational exposure have been observed.

Vitamin K. Antidote

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water. Carbon dioxide (CO2). CO2 or Dry chemical fire extinguisher

Extinguishing media which must not be used for safety reasons:

direct water jets

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke. Do not inhale explosion and combustion gases

Hazardous combustion products:

Carbon monoxide; Inorganic acid gases

5.3. Advice for firefighters

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use suitable breathing apparatus

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment. See protective measures under point 7 and 8. Remove persons to safety

For emergency responders:

Fist-gloves. Evacuate the danger area

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it

6.3. Methods and material for containment and cleaning up

For cleaning up:

Wet clean or vacuum up solids.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Advice on general occupational hygiene:

Do not eat, drink or smoke when using this product. Contamined clothing should be changed before entering eating areas. Wash hands after use

7.2. Conditions for safe storage, including any incompatibilities

Avoid temperatures > 40°C; Avoid light and sunlight exposure

Incompatible materials:

None in particular. Keep away from water or from damp surroundings

Date 25/10/2023 Production Name Murin Dife Pasta Page n. 3 of 11

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

sucrose

CAS: 57-50-1 OEL Type ACGIH Long Term: 10 mg/m3

Notes: A4 - Dental erosion

2,3-Butanedione

CAS: 431-03-8 OEL Type ACGIH Long Term: 0.01 ppm; Short Term: 0.02 ppm

Notes: A4 - Lung dam (Bronchiolitis obliterans-like illness)

OEL Type EU Long Term: 0.07 mg/m3 - 0.02 ppm; Short Term: 0.36 mg/m3 - 0.1 ppm

Predicted No Effect Concentration (PNEC) values

difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin

CAS: 56073-07-5 Exposure Route: Soil; PNEC Limit: 0.625 mg/kg

Derived No Effect Level (DNEL) values

difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin

CAS: 56073-07-5 Exposure Route: Human Oral; Exposure Frequency: Short Term (acute)

Consumer: 0.0000011 mg/kg bw/day

Exposure Route: Human Oral; Exposure Frequency: Long Term (repeated)

Consumer: 0.0000011 mg/kg bw/day

8.2. Exposure controls

For the choice of personal protection equipment, refer to the risk assessment carried out by the user in compliance with the national legislation on safety in the workplace.

Eye protection:

Not needed for normal use.

Protection for skin:

Wear category III professional long-sleeved work clothes and safety footwear (ref. Reg. (EU) 2016/425 and EN ISO 20344 standard). In the event that large quantities of product are used, type 6 (or greater) protective overalls (ref. UNI EN13034) are recommended.

Protection for hands:

UNI EN 374 (PF 3); NBR (nitrile rubber). PVC (polyvinyl chloride)

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

Do not get into drains, soil or any water body; Place the product out of the reach of children, birds, pets, farm animals and other non-target animals

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Solid Colour: green

Odour: butter

Odour threshold: Not Relevant

pH: 6.500 (The measurement of the pH of a 1% w/v aqueous suspension is not considered relevant due to either nature and use

of the product (ready to-use solid,not intended for dissolution/ emulsion/ dispersion in water).)

Kinematic viscosity: N.A.

Melting point / freezing point: Not Relevant

Date 25/10/2023 Production Name Murin Dife Pasta Page n. 4 of 11

Initial boiling point and boiling range: Not Relevant

Flash point: Not Relevant

Upper/lower flammability or explosive limits: Not Relevant

Vapour density: Not Relevant Vapour pressure: Not Relevant Relative density: N.A. Notes: 1.1 g/ml

Solubility in water: Miscible Solubility in oil: Soluble

Partition coefficient (n-octanol/water): Not Relevant Auto-ignition temperature: 373.000 °C Notes: 373 °C

Decomposition temperature: Not Relevant

Flammability: N.A.

Particle characteristics:

Particle size: N.A.

VOC (Dir. 2010/75/CE): Not Relevant VOC (volatile carbon): Not Relevant

9.2. Other information

Explosive properties: Not explosive Oxidizing properties: Not oxidant No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

Under normal storage and use conditions, no hazardous reactions occur.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

LD50 Skin Rat > 2000 mg/kg

Based on available data, the classification criteria are not met

Skin Irritant Skin Rabbit Negative

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

Eye Irritant Rabbit Negative

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

Skin Sensitization Skin Guinea-pig Negative

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity The product is classified: Repr. 1B(H360)

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure The product is classified: STOT RE 2(H373)

Date 25/10/2023 Production Name Murin Dife Pasta Page n. 5 of 11

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol

CAS: 52-51-7 a) acute toxicity LD50 Oral Rat = 307 mg/kg bw

> LD50 Skin Rat > 2000 mg/kg bw LC50 Inhalation Rat > 0.588 mg/l 4h

b) skin corrosion/irritation Eye Corrosive Eyes Rabbit Positive

Skin Irritant Skin Rabbit Positive

e) germ cell mutagenicity Mutagenesis Negative

f) carcinogenicity Carcinogenicity Negative

g) reproductive toxicity Reproductive Toxicity Negative

difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin

CAS: 56073-07-5 a) acute toxicity LD50 Oral Rat = 1.8

> LD50 Oral Dog > 50 mg/kg LD50 Skin Rabbit = 1000 mg/kg LC50 Inhalation Rat 0.036 mg/l 4h

2.3-Butanedione

CAS: 431-03-8 a) acute toxicity LD50 Skin Rabbit > 5 mg/kg

LD50 Oral Rat = 1580 mg/kg

Denatonium Benzoate

LD50 Oral Rat = 749 CAS: 3734-33-6 a) acute toxicity

LD50 Inhalation Rat = 0.2 mg/l

LD50 Skin Rat > 2000 Eye Irritant Eyes Positive

c) serious eye

damage/irritation

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol

CAS: 52-51-7 a) Aquatic acute toxicity: EC50 Algae = 0.068 mg/L 72 h - Anabaena flos aqua

a) Aquatic acute toxicity: EC50 Daphnia = 1.04 mg/L 48 h - Daphnia magna

a) Aquatic acute toxicity: LC50 Fish = 3 mg/L 96 h - Oncorhynchus mykiss

b) Aquatic chronic toxicity: NOEC Algae = 0.0025 mg/L 72 h - Anabaena flos aqua b) Aquatic chronic toxicity: NOEC Fish = 2.61 mg/L 672h - Oncorhynchus mykiss

b) Aquatic chronic toxicity: NOEC Daphnia = 0.06 mg/L 504h - Daphnia magna

difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin

CAS: 56073-07-5 q) Tossicità per organismi acquatici: LC50 = 0.52 mg/L 48 h

g) Tossicità per organismi acquatici: LC50 Fish = 0.064 mg/L 96 h - Rainbow trout

d) Terrestrial toxicity: LC50 earthworm > 994 mg/kg - Eisenia foetida

d) Terrestrial toxicity: NOEC earthworm = 62.5 mg/kg - Eisenia foetida

g) Tossicità per organismi acquatici: ErC50 Algae = 0.51 mg/L 72 h - Pseudokirkneriella subcapitata

d) Terrestrial toxicity: LC50 birds = 1.4 mg/kg - Japanese quail

Date 25/10/2023 **Production Name** Murin Dife Pasta Page n. 6 of 11 d) Terrestrial toxicity: LD50 birds = 56 mg/kg - Bobwhite quail d) Terrestrial toxicity: NOEC birds = 0.1 mg/kg - Japanese quail

12.2. Persistence and degradability

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol

CAS: 52-51-7 Test: CO2 production; Value: 70

Notes: (OECD 301 B (mod. -Sturm- Test))

Test: OECD 314 ; Value: 63.5

difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin

CAS: 56073-07-5 Non-readily biodegradable

12.3. Bioaccumulative potential

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol

CAS: 52-51-7 Test: BCF - Bioconcentrantion factor; Value: 3.16

Notes: calculated (EPIWIN)

Test: Kow - Partition coefficient; Value: 0.38 Notes: (Log Kow n-octanol/water OECD 107)

difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin

CAS: 56073-07-5 Test: BCF - Bioconcentrantion factor; Value: 1100

Notes: Calculated according to the BPC-2016-I-ENV

Bioaccumulative

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

List of Eco-Toxicological properties of the components

difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin

CAS: 56073-07-5 50 ppm PBT

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Dispose of unused product and packaging as hazardous waste.

Notes (Irish Regulation):

In case of rodenticides: At the end of the treatment, dispose of uneaten bait and the packaging in accordance with EPA requirements for the disposal of hazardous waste. Use of gloves is recommended.

Professional and Trained Professional users: dispose of dead rodents in accordance with local requirements, using one of the following methods of disposal (in order of preference): via an on-site or on-farm small carcass incinerator; with the site's or farm's domestic waste; in the site's or farm's normal non-hazardous waste; or by burial on-site, but away from sensitive areas.

Rodents can be disease carriers. Do not touch dead rodents with bare hands, use gloves or use tools such as tongs when disposing them.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

ADR-Class: NA N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

Date 25/10/2023 Production Name Murin Dife Pasta Page n. 7 of 11

N.A.

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

14.7. Maritime transport in bulk according to IMO instruments

NΑ

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EU) n. 2020/878

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: 30, 40, 75

Regulation (EU) n. 528/2012

Provisions related to directive EU 2012/18 (Seveso III):

N.A

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

ComponentIdent. Numb.QuantityMaterial Propertiesdifenacoum (ISO); 3-(3-biphenyl-4-CAS: 56073-07-550 ppmSVHC - PBT

yl-1,2,3,4-tetrahydro-1-naphthyl)-4-

hydroxycoumarin

EINECS: 259-978-4 Repr. Cat. 3.7/1B;

Index: 607-157-00-X Specific target organ toxicity - repeated exposure

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Date 25/10/2023 Production Name Murin Dife Pasta Page n. 8 of 11

SECTION 16: Other information

Code	Description				
H225	Highly flammable liquid and vapour.				
H300	Fatal if swallowed.				
H302	Harmful if swallowed.				
H310	Fatal in contact with skin.				
H312	Harmful in contact with skin.				
H315	Causes skin irritation.				
H317	May cause an allergic skin reaction.				
H318	Causes serious eye damage.				
H330	Fatal if inhaled.				
H331	Toxic if inhaled.				
H335	May cause respiratory irritation.				
H360D	May damage the unborn child.				
H372	Causes damage to organs through prolonged or repeated exposure.				
H372	Causes damage to organs (blood) through prolonged or repeated exposure.				
H373	May cause damage to organs through prolonged or repeated exposure.				
H373	May cause damage to organs (blood) through prolonged or repeated exposure.				
H400	Very toxic to aquatic life.				
H410	Very toxic to aquatic life with long lasting effects.				
	/				
Code	Hazard class and hazard category	Description			
Code	Hazard class and hazard category	Description			
Code 2.6/2	Hazard class and hazard category Flam. Liq. 2	Description Flammable liquid, Category 2			
Code 2.6/2 3.1/1/Dermal	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1	Description Flammable liquid, Category 2 Acute toxicity (dermal), Category 1			
Code 2.6/2 3.1/1/Dermal 3.1/1/Inhal	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1	Description Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1			
Code 2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/1/Oral	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 1	Description Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1			
Code 2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/1/Oral 3.1/2/Inhal	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2	Description Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2			
Code 2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/1/Oral 3.1/2/Inhal 3.1/3/Inhal	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2 Acute Tox. 3	Pescription Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2 Acute toxicity (inhalation), Category 3			
2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/1/Oral 3.1/2/Inhal 3.1/3/Inhal 3.1/4/Dermal	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4	Pescription Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2 Acute toxicity (inhalation), Category 3 Acute toxicity (dermal), Category 4			
2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/1/Oral 3.1/2/Inhal 3.1/3/Inhal 3.1/4/Dermal 3.1/4/Oral	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Acute Tox. 4	Pescription Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2 Acute toxicity (inhalation), Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4			
Code 2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/1/Oral 3.1/2/Inhal 3.1/3/Inhal 3.1/4/Dermal 3.1/4/Oral 3.2/2	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2	Pescription Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2 Acute toxicity (inhalation), Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4 Skin irritation, Category 2			
Code 2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/1/Oral 3.1/2/Inhal 3.1/3/Inhal 3.1/4/Dermal 3.1/4/Oral 3.2/2 3.3/1	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1	Pescription Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2 Acute toxicity (inhalation), Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4 Skin irritation, Category 2 Serious eye damage, Category 1			
Code 2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/2/Inhal 3.1/3/Inhal 3.1/4/Dermal 3.1/4/Oral 3.2/2 3.3/1 3.4.2/1	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1	Pescription Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2 Acute toxicity (inhalation), Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4 Skin irritation, Category 2 Serious eye damage, Category 1 Skin Sensitisation, Category 1			
Code 2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/2/Inhal 3.1/2/Inhal 3.1/4/Dermal 3.1/4/Oral 3.2/2 3.3/1 3.4.2/1 3.7/1B	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Repr. 1B	Pescription Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2 Acute toxicity (inhalation), Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4 Skin irritation, Category 2 Serious eye damage, Category 1 Skin Sensitisation, Category 1 Reproductive toxicity, Category 1B			
2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/1/Oral 3.1/2/Inhal 3.1/3/Inhal 3.1/4/Dermal 3.1/4/Oral 3.2/2 3.3/1 3.4.2/1 3.7/1B 3.8/3	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Repr. 1B STOT SE 3	Pescription Flammable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2 Acute toxicity (inhalation), Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4 Skin irritation, Category 2 Serious eye damage, Category 1 Skin Sensitisation, Category 1 Reproductive toxicity, Category 1B Specific target organ toxicity — single exposure, Category 3			
Code 2.6/2 3.1/1/Dermal 3.1/1/Inhal 3.1/2/Inhal 3.1/3/Inhal 3.1/4/Dermal 3.1/4/Oral 3.2/2 3.3/1 3.4.2/1 3.7/1B 3.8/3 3.9/1	Hazard class and hazard category Flam. Liq. 2 Acute Tox. 1 Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Repr. 1B STOT SE 3 STOT RE 1	Planmable liquid, Category 2 Acute toxicity (dermal), Category 1 Acute toxicity (inhalation), Category 1 Acute toxicity (oral), Category 1 Acute toxicity (inhalation), Category 2 Acute toxicity (inhalation), Category 3 Acute toxicity (inhalation), Category 4 Acute toxicity (dermal), Category 4 Skin irritation, Category 2 Serious eye damage, Category 1 Skin Sensitisation, Category 1 Reproductive toxicity, Category 1B Specific target organ toxicity — single exposure, Category 3 Specific target organ toxicity — repeated exposure, Category 1			

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

(EC) Nr. 1272/2008	Classification procedure
Repr. 1B, H360D	Calculation method
STOT RE 2, H373	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

Date 25/10/2023 Production Name Murin Dife Pasta Page n. 9 of 11

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 3: Composition/information on ingredients

- SECTION 8: Exposure controls/personal protection

- SECTION 11: Toxicological information

- SECTION 12: Ecological information

 Date
 25/10/2023
 Production Name
 Murin Dife Pasta
 Page n. 10 of 11

- SECTION 16: Other information

Date 25/10/2023 Production Name Murin Dife Pasta Page n. 11 of 11