

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Flexonal FPU 34-5

Version 3.2

Print Date 05.11.2021

Revision date / valid from 09.05.2020

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

1.1. Product identifier

	Trade name Substance name EC-No. Registration number		Flexonal FPU 34-5 Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate 906-170-0 01-2119475445-32-xxxx			
1.2.	Relevant identified uses of	the	e substance or mixture and uses advised against			
	Use of the Substance/Mixture	:	At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.			
	Uses advised against	:	At this moment we have not identified any uses advised against			
1.3.	Details of the supplier of th	e s	afety data sheet			
	Company Telephone Telefax E-mail address Responsible/issuing		Bachmann Kunststoff Technologien GmbH Rudolf-Diesel-Str. 2 DE 63322 Rödermark +49 (0)6074-94394 +49 (0)6074-98544 service@bktgermany.com Umwelt / Sicherheit person			
1.4.	Emergency telephone num	ber				
	Emergency telephone number	:	+49 (0)6131-19240			
Sect	ion 2: Hazards identificati	ion				
2.1.	Classification of the substa	nc	e or mixture			
	Classification according to	Re	gulation (EC) No 1272/2008			
	The product is not classified	d as	a dangerous according to Regulation (EC) No. 1272/2008.			
	Classification according to EU Directives 67/548/EEC or 1999/45/EC					

This substance is not classified as dangerous according to Directive 67/548/EEC.



Most important adverse effects

Human Health	:	See section 11 for toxicological information.
Physical and chemical hazards	:	See section 9 for physicochemical information.
Potential environmental effects	:	See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

Additional Labelling:

Handle in accordance with good industrial hygiene and safety practice.

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5. The labelling is according to the declaration of the supplier. After the product test by the supplier there was no relevant irritant effect detected wich must be declared. The labelling with R36 is not required.

Section 3: Composition/information on ingredients

3.1. Substances

Hazardous components	Amount [%]	Classific (REGULATION (EC Hazard class / Hazard category) No 1272/2008) Hazard statements	Classification (67/548/EEC)
Reaction mass of dimethyl adipate and di	imethyl glutarate	and dimethyl succina	ate	
EC-No. : 906-170-0 Registration : 01-2119475445-32-xxxx	<= 100			
		ntain any ingredier C/648/2004), Anne		the EU
Section 4: First aid measures				
4.1. Description of first aid measure	S			
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	General advice	: Take off all contaminated clothing immediately. Move out of dangerous area.
	If inhaled	: Remove to fresh air. If symptoms persist, call a physician.
	In case of skin contact	: Wash off with soap and plenty of water. If skin irritation persists, call a physician.
	In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
	If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Consult a physician.
.2.	Most important symptoms	and effects, both acute and delayed
	Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
	Effects	: See Section 11 for more detailed information on health effects and symptoms.
.3.	Indication of any immedia	te medical attention and special treatment needed
Sect	Treatment	: Treat symptomatically.
Sect	Treatment	 : Treat symptomatically. ures : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
1.3. Sect 5.1.	Treatment tion 5: Firefighting measu Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	 : Treat symptomatically. ures : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Sect 5.1.	Treatment tion 5: Firefighting measu Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	 : Treat symptomatically. : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. : Water jet.
Sect 5.1.	Treatment tion 5: Firefighting measu Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising from Specific hazards during	 : Treat symptomatically. ures : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. : Water jet. om the substance or mixture : The product itself does not burn. May decompose in a fire giving off toxic fumes, Hazardous decomposition products,
Sect 5.1.	Treatment tion 5: Firefighting measu Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising fre Specific hazards during firefighting	 : Treat symptomatically. ures : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. : Water jet. om the substance or mixture : The product itself does not burn. May decompose in a fire giving off toxic fumes, Hazardous decomposition products,



6.1.	Personal precautions, protective equipment and emergency procedures		
	Personal precautions	: Wear personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation.	
6.2.	Environmental precautions	S	
	Environmental precautions	: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained.	
6.3.	Methods and materials for	containment and cleaning up	
	Methods and materials for containment and cleaning up	: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Treat recovered material as described in the section "Disposal considerations".	
6.4.	Reference to other section	IS	
	For personal protection see	e section 8.	
Sect	tion 7: Handling and stora	age	
7.1.	Precautions for safe handl		
		5	
	Advice on safe handling	: Keep container tightly closed. Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms.	
	Hygiene measures	: Smoking, eating and drinking should be prohibited in the application area. Keep away from food, drink and animal feedingstuffs. Take off all contaminated clothing immediately. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.	
7.2.	Conditions for safe storag	e, including any incompatibilities	
	Requirements for storage areas and containers	: Keep in a dry, cool place. Keep only in the original container. Keep in an area equipped with solvent resistant flooring.	
	Advice on protection against fire and explosion	: The product is flammable but not readily ignited. Possible formation of ignitable mixtures in air if heated above flash point and/or if sprayed (atomised). Keep away from sources of ignition - No smoking. Keep away from heat.	
	Further information on storage conditions	: Keep away from heat. Keep away from direct sunlight. Keep in a well-ventilated place.	
	German storage class	: 10 Combustible liquids.	
7.3.	Specific end use(s)		
	Specific use(s)	: No information available.	
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Section 8: Exposure controls/personal protection 8.1. Control parameters Component: **Reaction mass of dimethyl** adipate and dimethyl glutarate and dimethyl succinate **Other Occupational Exposure Limit Values** TRGS 900, AGW: 1,2 ppm, 8 mg/m3, (2(I)) If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). 8.2. Exposure controls Appropriate engineering controls Refer to protective measures listed in sections 7 and 8. Personal protective equipment Respiratory protection

Advice	:	In case of insufficient ventilation, wear suitable respiratory equipment. Required if vapours or aerosol are released. Recommended Filter type: Filter type A for organic gases and vapors.	
Hand protection			
Advice	:	Wear suitable 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. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Protective gloves should be replaced at first signs of wear. The following materials are suitable:	
Material Break through time Glove thickness <i>Eye protection</i>		butyl-rubber > 480 min 0,5 mm	
Advice	:	Tightly fitting safety goggles	
Skin and body protect	tion		
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Advice	:	Solvent resistant protective clothing	
Environmental expo	osure	controls	
General advice	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained.	

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	liquid
Colour	:	colourless
Odour	:	sweet
Odour Threshold	:	no data available
рН	:	no data available
Melting point/range	:	-20 °C
Boiling point/boiling range	:	ca. 196 - 225 °C
Flash point Evaporation rate	:	103 °C no data available
Flammability (solid, gas)	:	no data available
Upper explosion limit	:	8 %(V)
Lower explosion limit	:	0,9 %(V)
Vapour pressure	:	0,08 hPa (20 °C)
Relative vapour density	:	no data available
Density	:	ca. 1,09 g/cm3 (20 °C)
Water solubility	:	ca. 53 g/l (20 °C)
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	370 °C
Thermal decomposition	:	no data available
Viscosity, dynamic	:	ca. 2,6 mPa.s (25 °C)
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	Explosivity	: Product is not explosive. Formation of explosive air/vapour mixtures is possible.	
	Oxidizing properties	: no data available	
9.2.	Other information		
	No further information availa	able.	
Sect	ion 10: Stability and read	tivity	
10.1.	Reactivity		
	Advice	: No dangerous reaction known under conditions of normal use.	
10.2.	Chemical stability		
	Advice	: Stable under recommended storage conditions.	
10.3.	Possibility of hazardous re	eactions	
	Hazardous reactions	: No dangerous reaction known under conditions of normal use.	
10.4.	Conditions to avoid		
	Conditions to avoid	: Heat, flames and sparks.Keep away from direct sunlight.	
10.5.	Incompatible materials		
	Materials to avoid	: Acids, Bases, Oxidizing agents	
10.6.	Hazardous decomposition	products	
	Hazardous decomposition products	: Fire may cause evolution of: Carbon oxides	
Sect	ion 11: Toxicological info	ormation	
11.1.	Information on toxicologic	cal effects	
		Irritation	
		Skin	
	Result :	Based on available data, the classification criteria are not met.	
		Eyes	
	Result :	Based on available data, the classification criteria are not met.	



	Sensitisation	
Result	: No sensitizing effect known.	
	CMR effects	
	CMR Properties	
Carcinogenicity	: It is not considered carcinogenic.	
Mutagenicity	: It is not considered mutagenic.	
Reproductive toxicity	: It is not considered toxic for reproduction.	
	Specific Target Organ Toxicity	
	Single exposure	
remark	: The substance or mixture is not classified as specific target organ toxicant, single exposure.	า
	Repeated exposure	
remark	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.	ſ
	Other toxic properties	
	Aspiration hazard	
	No aspiration toxicity classification	
	Further information	
Other relevant toxicity information	: Handle in accordance with good industrial hygiene and safety practice.	
adipate	eaction mass of dimethyl and dimethyl glutarate and I succinate	
	Acute toxicity	
	Oral	
LD50 Oral	 > 5000 mg/kg (rat, female) Information given is based on data obtained from similar substances. 	
	Inhalation	
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	LC50	 > 11 mg/l (rat, male and female; 4 h) Information given is based on data obtained from similar substances.
		Dermal
	LD50 Dermal	: > 2000 mg/kg (rat)
cti	on 12: Ecologica	information
.1.	Toxicity	
		Reaction mass of dimethyl ate and dimethyl glutarate and ethyl succinate
		Acute toxicity
		Fish
	LC50	: 18 - 24 mg/l (Pimephales promelas (fathead minnow); 96 h)
		Toxicity to daphnia and other aquatic invertebrates
	EC50	: 112 - 150 mg/l (Daphnia magna (Water flea); 48 h)
		algae
	ErC50	: > 85 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h)
2.2.	Persistence and de	egradability
	-	Reaction mass of dimethyl ate and dimethyl glutarate and ethyl succinate
		Persistence and degradability
		Biodegradability
	Result	: 97 % (aerobic; Exposure Time: 28 d)(OECD Test Guideline 301) Readily biodegradable.
.3.	Bioaccumulative p	otential
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	adipate a	action mass of dimethyl nd dimethyl glutarate and succinate
		Bioaccumulation
	Result :	Does not bioaccumulate.
12.4.	Mobility in soil	
	adipate a	action mass of dimethyl nd dimethyl glutarate and succinate
		Mobility
	Soil :	Predicted distribution to environmental compartments
	Water :	Predicted distribution to environmental compartments
12.5.	Results of PBT and vPv	B assessment
-		Results of PBT and vPvB assessment
	Result :	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
12.6.	Other adverse effects	
		Additional ecological information
	Result :	Do not flush into surface water or sanitary sewer system.
Secti	ion 13: Disposal consi	derations
	Waste treatment method	
	Product	: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains.
	Contaminated packaging	recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner
		as the product.
	European Waste	as the product. No waste code according to the European Waste Catalogue



Catalogue Number

can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

Section 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

Section 15: Regulatory information

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

WGK (DE) Major Accident Hazard Legislation	:	WGK:1; slightly water endangering; WGK (DE); Self- classification according VwVwS of 17 May 1999, Annex 4 Does not fall under the German StörfallV
Other regulations	:	Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.



15.2. Chemical Safety Assessment

no data available

Section 16: Other information

Full text of R-phrases referred to under sections 2 and 3. Further information

Other information

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.