

Legal status date: 2010/12/01
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Section 1. Identification of the substance / mixture and of the company / undertaking

1.1 Product identifier

Product name: **Glycerin anhydrous**
 Catalog name: pure p.a. – 114433204, pure – 424433203, purified - 324433203
 EC-index number: lack
 REACH pre-reg. number: 05-2118478432-38-0000
 WE Number: 200-289-5
 CAS Number: 56-81-5
 Material form: liquid
 Chemical formula: $C_3H_8O_3$ (masa cząsteczkowa: 92,1)

1.2 Identified uses of the substance or mixture and uses advised against

Identified uses: analytical reagent, chemicals for synthesis.

1.3 Details of the supplier of the safety data sheet

Company: FIRMA CHEMPUR
 41-940 Piekary Śląskie ul. Jana Lortza 70a
 tel.: (0-32) 287 20 52, (032) 767 88 91
 fax: (0-32) 287 20 52,
 e-mail: chempur@chempur.pl
 Numer telefonu kontaktowego: Koloch Mirosław – 032 382 49 01 wewn.22 (czynny od 7.00 do 15.00)
 Krawczyk Olga – 032 382 00 40 (czynny od 7.00 do 15.00)
 Pacyna Ewa – 032 382 49 01 wewn.22 (czynny od 7.00 do 15.00)

mkoloch@chempur.pl
okrawczyk@chempur.pl
epacyna@chempur.pl

1.4 Emergency telephone number

Emergency telephone number: fire brigade – 998 (112 from a mobile)

Section 2. Hazard identification

1.1 Classification of the substance or mixture

Classification according to:	
Regulation 1272/2008 [CLP/GHS]	Regulation 67/548/EWG [DSD] or 1999/45/WE
-	-

For the full text of the H-statements and R-phrases mentioned in this section, see section 16.

1.2 Label elements

Hazard pictograms	-
Signal word	-
Hazard statements	-
Precautionary statements	-

1.3 Other hazards

Not known.

Section 3. Composition / information of ingredients

Product / content name	Identifiers	Content [%]	Classification according to:	
			67/548/EWG or 1999/45/WE	1272/2008
Glycerin	WE: 200-289-5 CAS: 56-81-5 Nr rej. wstępnej: 05-2118478432-38-0000	min. 98	-	-

For the full text of the H-statements and R-phrases mentioned in this section, see section 16.

Section 4. First aid measures

4.1 Description of first aid measures

Eye contact	Rinse out with plenty of water with the eyelid held wide open for at least 10 minutes. Call in ophthalmologist if irritation occurs.
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After inhalation	Fresh air. If breathing stops: immediately apply artificial respiration, if necessary oxygen. Call in physician if any symptoms occurs.
After swallowing	Immediately make victim drink water (two glasses at most). Don't induce vomiting. Call in physician if any symptoms occurs.
After skin contact	Wash off with plenty of water. Remove contained clothing. Call a physician if any symptoms occurs.

4.2 Most important symptoms and effects, both acute and delayed

Exposure:	Acute health effects:	Excessive exposure causes:
Eye contact	Not known.	Not known.
After inhalation	Not known.	Not known.
After swallowing	Not known.	Not known.
After skin contact	Not known.	Not known.

4.3 Indication of immediate medical attention and special treatment needed

Information for doctor	No data available.
Specific treatment	Without a special treatment.

Section 5. Fire – fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Dry chemicals powder.
Unsuitable extinguishing media	Don't use a water jet.

5.2 Special hazards arising from the substance or mixture

Not combustible. In fire atmosphere may be evaluated carbon oxides.

5.3 Advice for firefighters

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system. Remove container from danger zone and cool with water.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel:	Avoid substance contact. Don't breathe dusts.
Advice for emergency responders:	Protective equipment see section 8.

6.2 Environmental precautions

Don't empty into drains. Clean up affected area.

6.3 Methods and materials for containment and cleaning up

Take up dry. Observe possible material restrictions. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Protective equipment see section 8.

Indications about waste treatment see section 13.

Section 7. Handling and storage

7.1 Precautions for safe handling

Observe label precautions.

Advice on no protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well – ventilated place. Dry. Away from combustible materials and sources of ignition and heat. Keep locked up or in an area accessible only to qualified or authorized persons. Storage temperature: no storage restrictions.

7.3 Specific end uses.

Recommendations	unavailable
Specific solution for industry	unavailable

Section 8. Exposure controls / personal protection

8.1 Control parameters

NDS	10 mg/m ³	as aerosol
NDSCh	-	

8.2 Exposure controls

8.2.1 Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

8.2.2 Individual protection measures

Protective clothing Leeds to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

<i>Eye / face protection</i>		Safety glasses.
<i>Skin protection</i>	<i>Hand protection</i>	Gloves made from nitrile rubber, thickness 0,11mm and break through time > 480 min.
	<i>Body protective</i>	Protective clothing.
	<i>Other protective equipment</i>	Wash hands after working with substance.
<i>Respiratory protection</i>		Required when steams / aerosols are generated. Recommended filter ABEK type or better.

8.2.3 Environmental exposure controls

Don't empty into drains.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

<i>Appearance</i>	<i>form</i>	liquid	<i>Vapour pressure</i>	unavailable
	<i>colour</i>	colourless	<i>Relative vapour density</i>	unavailable
<i>Odour</i>		odourless	<i>Relative density</i>	1,26 g/cm ³ (20°C)
<i>Odour threshold</i>		unavailable	<i>Water solubility</i>	unlimited
<i>pH</i>		5,5 - 8	<i>Partition coefficient: n-octanol / water</i>	unavailable
<i>Melting point</i>		20°C	<i>Autoignition temperature</i>	ca. 370°C
<i>Boiling point / boiling range</i>		182°C	<i>Decomposition temperature</i>	> 290°C
<i>Flash point</i>		closed crucible: 160°C	<i>Viscosity, dynamic</i>	unavailable
<i>Evaporation rate</i>		unavailable	<i>Explosive properties</i>	unavailable
<i>Flammability</i>		unavailable	<i>Oxidizing properties</i>	unavailable
<i>Explosion limit</i>	<i>lower</i>	0,9% v/v		
	<i>upper</i>	unavailable		

9.2 Other data

No information available.

Section 10. Stability and reactivity

10.1 Reactivity

Dangerous reactions aren't expected handling the product according to it's intended use.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions.

10.3 Possibility of hazardous reactions

Violent reaction possible with strong oxidizing agents and strong alkali reagents.

10.4 Conditions to avoid

Water.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

In the fire atmosphere – evolution of carbon oxides.

Section 11. Toxicological information's

Glycerin	LD50	oral	rat	12600 mg/kg
		intraperitoneally		4420 mg/kg
		intravenously		5566 mg/kg
		oral	mouse	4090 mg/kg
		intraperitoneally		8700 mg/kg
		intravenously		4250 mg/kg

		oral	rabit	27000 mg/kg
		dermal		> 10000 mg/kg
		oral	guinea - pig	7750 mg/kg
	LC50	inhalation	rat	> 570 mg/m ³ /1h

Corrosive / irritant effects for skin	Not known.
Serious eye damage / irritating effects for eyes	Not known.
Respiratory tract and skin sensitization	Not known.
Genotoxicity in vitro	Not known.
Carcinogenicity	Not known.
Reproductive toxicity	Not known.
Aspiration hazard	No aspiration toxicity classification.

Targed organs toxicity	category	exposure tract	expose organs
Single exposure	unavailable	not known	unavailable
Repeated exposure	unavailable	not known	unavailable

Information about possible exposure tracts

Eye contact	Not known.
Skin contact	Not known.
Inhalation	Not known.
Ingestion	Not known.

Other information's:

Not known.

Section 12. Ecological information's

12.1 Toxicity

Product / ingredient name			Species		Exposure
Glycerin	LC50	> 5000 mg/dm ³	fish	Carassium auratus	96 godz
		44000 mg/dm ³		Pimephales promelas	
		67500 mg/dm ³		Oncorhynchus mykiss	

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Soluble in water.

12.5 Results of PBT and vPvB assessment

PBT / vPvB assessment isn't available as chemical safety assessment isn't required / conducted.

12.6 Other adverse effects

Don't allow to run into surface waters, wastewaters or soil.

Section 13. Disposal consideraions

Chempur product packaging must be disposed of In compliance with the country – specific regulations or must be passed to a packaging return system. Handle contaminated packing in the same way as the substrate itself. Always contact a permitted waste disposal to assure compliance with all current local, state and federal regulations.

Recommended way of waste disposal: thermal conversion .

Section 14. Transport information's

		ADR / RID	ADN / ADN	IMDG	IATA
14.1	UN Number (ONZ No)	-			
14.2	UN transport name	-			
14.3	Risk classes in transport	-	-	-	-

14.4	Packaging group	-	-	-	-
14.5	Environmental risk	No	no	no	no
14.6	Specially precautions for users	unavailable	unavailable	unavailable	unavailable

Section 15. Regulatory information's

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

Regulation:	Concerns:	Information:
UE (WE) No 1907/2006 (REACH)	Annex XIV – SVHC substances	constituents not mentioned In this annex
	Limitations	only for professional applications

- Rozporządzenie (WE) nr 453/2010 z dnia 20 maja 2010 roku zmieniające rozporządzenie (WE) nr 1907/2006 Parlamentu Europejskiego i Rady w sprawie rejestracji, oceny, udzielania zezwoleń i stosownych ograniczeń w zakresie chemikaliów (REACH).
- Rozporządzenie Ministra Gospodarki, Pracy i Polityki Społecznej z dnia 31 marca 2003 roku w sprawie zasadniczych wymagań dla środków ochrony indywidualnej (Dz.U. 2003, nr 80, poz. 725) z późniejszymi zmianami.
- Rozporządzenie Ministra Gospodarki, Pracy i Polityki Społecznej z dnia 21 grudnia 2005 roku w sprawie zasadniczych wymagań dla środków ochrony indywidualnej (Dz.U. 2005, nr 259, poz. 2173).
- Rozporządzenie Ministra Pracy i Polityki Społecznej z dnia 29 listopada 2002 roku w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy (Dz.U. 2002, nr 217, poz. 1833) z późniejszymi zmianami.
- Rozporządzenie Ministra Środowiska z dnia 27 kwietnia 2001 roku w sprawie katalogu odpadów (Dz. U. 2001, nr 112, poz. 1206).
- Rozporządzenie Ministra Zdrowia z dnia 2 września 2003 roku w sprawie kryteriów i sposobu klasyfikacji substancji i preparatów chemicznych (Dz.U. 2003, nr 171, poz. 1666) z późniejszymi zmianami.
- Rozporządzenie Ministra Zdrowia z dnia 20 kwietnia 2005 roku w sprawie badań i pomiarów czynników szkodliwych dla zdrowia w środowisku pracy (Dz.U. 2005, nr 73, poz. 645) z późniejszymi zmianami.
- Rozporządzenie Ministra Zdrowia z dnia 30 grudnia 2004 roku w sprawie bezpieczeństwa i higieny pracy związanej z występowaniem w miejscu pracy czynników chemicznych (Dz.U. 2005, nr 11, poz. 86).
- Rozporządzenie Ministra Zdrowia z dnia 5 marca 2009 roku w sprawie oznakowania opakowań substancji niebezpiecznych i preparatów niebezpiecznych oraz niektórych preparatów chemicznych (Dz.U. 2009, nr 53, poz. 439).
- Ustawa z dnia 5 października 2010 roku o odpadach (Dz.U. 2010, nr 185, poz. 1243).
- Ustawa z dnia 11 maja 2001 roku o opakowaniach i odpadach opakowaniowych (Dz.U. 2001, nr 63, poz. 638) z późniejszymi zmianami.
- Ustawa z dnia 25 lutego 2011 roku o substancjach chemicznych i ich mieszaninach (Dz.U. 2011, nr 63, poz. 322) z późniejszymi zmianami.

15.2 Chemical safety assessment

Not known.

Section 16. Other information's

Full text of H-statements referred to under section 2 and 3

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

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Information's placed above are take as correct, but not comprehensive and should be used only as indicative information's.

CHEMPUR Company doesn't take responsibility for any damages caused by work or contact with this substance.

This MSDS is developed on base of MSDS's delivered by product and/or internet data bases and standing rules on dangerous substances and chemical mixtures.

MSDS is property of CHEMPUR Company with department in Piekary Śląskie (Poland) and describes only product marked on label CHEMPUR sign and Company name.

Training:

People taking care of this material should be trained in procedures of safety work with this substance.

Updates against previous version:

lack

Literature positions and other sources used to prepare this MSDS:

- 2004 Zasady postępowania ratowniczego – opracowanie na podstawie oryginału angielskiego: The Emergency Response Guide Book. Wydawnictwo FIREX 2004.
- Dangerous Goods Emergency Action Code List 2004. HM Fire Service Inspectorate 2004.
- Genium Publishing Corporation. Genium's Handbook of Safety, Health and Environmental Data for Common Hazardous Substances. New York, Mc Graw Hill 1999.
- Grzegorzczak K., Hanczyk B., Buchacz R.: Towary niebezpieczne w transporcie drogowym ADR 2005 – 2007. Warszawa, Wydawnictwo Buch-Car 2005.
- Hayes W.J., Laws R.E.: Handbook of Pesticide Toxicology. Vol 1-3. San Diego, CA, Academic Press, Inc. 1991.
- Lewis R.J.: Sax's Dangerous Properties of Industrial Materials. New York, Wiley 2000.
- MICROMEDEX(R) Healthcare Series. Vol. 118, 12/2003.
- MICROMEDEX(R) Healthcare Series. Vol. 124, 2005.
- Patty's Industrial Hygiene and Toxicology. Ed. R.L. Harris. New York, Wiley 2000.
- PKP Cargo S.A. Regulamin dla międzynarodowego przewozu kolejami towarów niebezpiecznych (RID) – obowiązuje od 1 stycznia 2005 r., zastępuje przepisy z dnia 1 stycznia 2003 r., ze zmianami z 2004 r.
- Poisoning and Drug Overdose. Ed. K.R. Olson. Norwalk, Appleton and Lange 1990.
- The Dictionary of Substances and their Effects. Ed. M.L. Richardson, S. Gangoli. Royal Society of Chemistry 1992.
- Umowa europejska dotycząca międzynarodowego przewozu towarów niebezpiecznych ADR obowiązująca od dnia 1 stycznia 2005 r. Opracowana na podstawie oryginału angielskiego. Wydawnictwo ONZ nr ECE/TRANS/175; wraz z poprawkami zawartymi w dokumentach nr ECE/TRANS/175 Corr. 1 i 2.
- Advancing Science. Aldrich 2005-2006 [CD-ROM].
- BIG Database v. 12.0 (baza danych o materiałach niebezpiecznych) BIG – Brandweerinformatiecentrum, Geel-Belgium [CD-ROM, ostatnia aktualizacja 24.02.2005].
- Canadian Centre for Occupational Health and Safety: MSDS; CHEMpendium; RTECS; OSH; TOXLINE; CHEMINDEX [CD-ROM].
- EINECS. Plus 2005. Office for Official Publications 2005 [CD-ROM].
- Tokes Plus. Vol. 64, 2005 [CD-ROM].
- Integrated Risk Information System. U.S. Environmental Protection Agency [on-line].
- International Labour Organization. International Chemical Safety Cards 2004. <http://www.ilo.org/public/>.
- PAN Pesticides Database – Chemical toxicity studies on aquatic organisms. http://www.pesticideinfo.org/List_ChemicalsAlpha.jsp.
- TOXNET Hazardous Substances Data Bank (HSDB) <http://toxnet.nlm.nih.gov>.
- International Agency for Research on Cancer. <http://www.iarc.fr>.
- Agency for Toxic Substances and Disease Registry. <http://www.atsdr.cdc.gov>.
- International Programme on Chemical Safety INCHEM. <http://www.inchem.org>.
- MSDS Software, Solutions and Services. <http://www.online-msds.com>.
- European Chemicals Bureau. <http://ecb.jrc.it/classification-labelling>.
- ChemFinder.Com. Database & Internet Research. <http://chemfinder.cambridgesoft.com>.
- Biuro do spraw Substancji i Preparatów Chemicznych. <http://www.chemikalia.mz.gov.pl>.
- European Chemicals Bureau. <http://ecb.jrc.it/new-chemicals>.