

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	45I/4521	Page 1 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018
Safety data shee	t according to EU Reg. 1907/2006 as amended	Supersedes July 2017

SAFETY DATA SHEET 4521, GLYPHOSATE 360 g/l SL

Revision: Sections containing a revision or new information are marked with a .

* SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier 4521, GLYPHOSATE 360 g/l SL 1.2. Relevant identified uses of the substance or mixture and uses advised against Can be used as herbicide only. 1.3. Details of the supplier of the safety CHEMINOVA A/S, a subsidiary of FMC Corporation data sheet Thyborønvej 78 DK-7673 Harboøre Denmark SDS.Ronland@fmc.com 1.4. Emergency telephone number +45 97 83 53 53 (24 h; for emergencies only) <u>Company</u> **Medical emergencies:** Norway: +47 22 591300 Austria: +43 1 406 43 43 Poland: +48 22 619 66 54 Belgium: +32 70 245 245 +48 22 619 08 97 Bulgaria: +359 2 9154 409 Portugal: 808 250 143 (in Portugal only) Cyprus: 1401 +351 21 330 3284 Czech Republic: +420 224 919 293 Romania: +40 21318 3606 +420 224 915 402 Denmark: +45 82 12 12 12 Slovakia: +421 2 54 77 4 166 Slovenia: +386 41 650 500 France: +33 (0) 1 45 42 59 59 South Africa: +27 83 123 3911 (Bateleur Emergency Response Co.) Finland: +358 9 471 977 Spain: +34 91 562 04 20 Greece: 30 210 77 93 777 Sweden: +46 08-331231 Hungary: +36 80 20 11 99 Ireland (Republic): +353 1 809 2166 112 Switzerland: 145 Italy: +39 02 6610 1029 Turkey: 114 Lithuania: +370 523 62052 United Kingdom: 111 +370 687 53378 U.S.A. & Canada: +1 800 / 331-3148 (ProPharma) Luxembourg: +352 8002 5500 All other countries: +1 651 / 632-6793 (ProPharma - Collect) Netherlands: +31 30 274 88 88

SECTION 2: HAZARDS IDENTIFICATION

2.1.	Classification of the substance or	
	mixture	None



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 2 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

	WHO classification	Class U (Unlikely to present acute hazard in normal use)
	Health hazards	The product has mildly irritating properties.
	Environmental hazards	The product is a herbicide and is therefore expected to be harmful to all green plants.
2.2.	Label elements According to EU Reg. 1272/2008 as Product identifier	<u>amended</u> 4521, Glyphosate 360 g/l SL
	Hazard pictograms	None None None
	Supplementary hazard statements EUH210 EUH401	Safety data sheet available on request. To avoid risks to human health and the environment, comply with the instructions of use.
2.3.	Other hazards	None of the ingredients in the product meets the criteria for being PBT

♣ SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1.	Substances		The product is a	mixture, not a substance.
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3.2. **Mixtures** See section 16 for full text of hazard statements.

Active ingredient Glyphosate, in the form of its isopropylamine salt

or vPvB.

The product contains 486 g/l of the pure active ingredient glyphosate as its isopropylamine salt, equivalent to 360 g/l of the free acid

glyphosate.

Glyphosate Content: 31% by weight
CAS name Glycine, N-(phosphonomethyl)CAS no. 1071-83-6
IUPAC name(s) N-(Phosphonomethyl)glycine
Clyphosate

 ISO name/EU name
 Glyphosate

 EC no. (EINECS no.)
 213-997-4

 EU index no.
 607-315-00-8

Classification of the ingredient Eye damage: Category 1 (H318)

Hazards to the aquatic environment, chronic: Category 2 (H411)

Structural formula

 $\begin{array}{c} O \\ \parallel \\ OH \\ OH \end{array}$



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 3 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

Glyphosate isopropylamine salt CAS name CAS no IUPAC name	Content: 42% by weight Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (1:1) 38641-94-0			
EU name Common name Other name(s) EC no. (EINECS no.) EU index no.	N-(phosphonomethyl)glycine, compound with 2-propylamine (1:1) Glyphosate isopropylamine salt Glyphosate-isopropylammonium 254-056-8			
Classification of the ingredient Structural formula	015-184-00-8 Hazards to the aquatic environment, chronic: Category 2 (H411) O HOOCCH ₂ NHCH ₂ — O H ₃ N CH(CH ₃) ₂			
Reportable ingredients	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Poly(oxy-1,2-ethanediyl), α -phosphono- ω -butoxy-, isopropylamine salt	max. 3	431040-31-2	None	Skin Corr. 1C (H314) Eye Dam. 1 (H318)
2-(2-(2-Butoxyethoxy)ethoxy)ethanol	max. 1	143-22-6	205-592-6	Eye Dam. 1 (H318)
Alcohols, C8-10 (even numbered), ethoxylated	max. 1	71060-57-6	None	Acute Tox. 4 (H302) Eye Dam. 1 (H318)
CCTION 4: FIRST AID MEASURES				
.1. Description of first aid measures Inhalation	Light cas	es: Keep person	under surveillar	ely remove from exposur nce. Get medical attention as cases: Get medical

		Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
	Skin contact	Remove contaminated clothing and footwear. Flush skin with water. Wash with water and soap. See physician if irritation develops.
	Eye contact	Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. Get medical attention immediately.
	Ingestion	Immediately rinse mouth and drink milk or water. Do not induce vomiting. If vomiting does occur, rinse mouth and drink fluids again. Call a doctor or get medical attention.
4.2.	Most important symptoms and effects, both acute and delayed	Primarily irritation.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	451/4521	Page 4 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

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

Immediate medical attention is required in case of eye contact.

Note to physician

The irritating effects of this product can be treated as usual against effects of acids or acid fumes. Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are carbon monoxide, carbon dioxide, phosphorus pentoxide and nitrogen oxides

5.3. Advice for firefighters

Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

It is recommended to have a predetermined plan for the handling of spills. Empty, sealable vessels (not metal) for the collection of spills should be available.

In case of large spill (involving 10 tonnes of the product or more):

- 1. use personal protection equipment; see section 8
- 2. call emergency telephone no.; see section 1
- 3. alert authorities.

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and boots.

Stop the source of the spill immediately if safe to do so. Avoid and reduce mist formation as much as possible. Personal exposure by splashing must be avoided.

6.2. Environmental precautions

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and materials for containment and cleaning up

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 5 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, hydrated lime, bentonite, attapulgite or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with detergent and rinse with water. Absorb wash liquid with absorbent and transfer to suitable containers. The used containers should be properly closed and labelled.

Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

6.4. Reference to other sections

See subsection 8.2. for personal protection. See section 13 for disposal.

♣ SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

In an industrial environment, it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Avoid contact with eyes, skin or clothing. Avoid breathing vapour or spray mist. Wash thoroughly after handling. Remove contaminated clothing immediately. Then wash thoroughly and put on clean clothing.

The product or its spray solutions should be stored in stainless steel, aluminium, fiberglass, plastic or plastic-lined containers only. See subsection 10.5.

Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

7.2. Conditions for safe storage, including any incompatibilities

The product is stable under normal conditions of warehouse storage.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 6 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

7.3. **Specific end use(s)**

This product is a registered pesticide, which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters** To our knowledge, personal exposure limits have not been established

for glyphosate or any other component in this product. However, personal exposure limits defined by local regulations may exist and

must be observed.

Glyphosate free acid

8.2. Exposure controls

0.2 mg/kg bw/day 0.028 mg/l

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When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping systems non-

hazardous before opening.

The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be

recommended for spraying as well.



Respiratory protection

The product is not likely to present an airborne exposure concern during normal handling, but in the event of an accidental discharge of the material which produces a heavy vapour or mist, workers must put on officially approved respiratory protection equipment with a

universal filter type including particle filter.



Protective gloves

Wear heavy duty, natural rubber gloves. The breakthrough times of these gloves for glyphosate are unknown, but it is expected that they will give adequate protection. It is recommended to limit the work to be done manually.



Eye protection

Wear safety glasses, goggles or face shield. It is recommended to have an eye wash fountain immediately available in the workplace when there is a potential for eye contact.



Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690

www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 7 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. **Information on physical and** chemical properties

Appearance Yellow liquid

Upper/lower flammability or

explosive limits Not determined

Vapour pressure For glyphosate free acid: 1.31 x 10⁻⁵ Pa at 25°C

Density: 1.169 g/cm³ at 20°C

dichloromethane 0.184 g/l methanol 15.88 g/l

Solubility of glyphosate free acid in water: 10.5 g/l at 20°C.

Partition coefficient n-octanol/water Autoignition temperature Glyphosate free acid: $\log K_{ow} = -3.3$ Not determined

9.2. **Other information**

Miscibility The product is miscible with water.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reac	tivity	To our	knowle	dge, t	he prod	luct	has no	special	reactivities.
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10.2. **Chemical stability** The product is stable during normal handling and storage at ambient

temperatures.

10.3. **Possibility of hazardous reactions** None known

10.4. **Conditions to avoid** Heating of the product will produce harmful and irritant vapours.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 8 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

containers. Stainless steel may be used. The product may react with such containers to produce hydrogen gas which could flash or explode if ignited.

10.6. **Hazardous decomposition products** See subsection 5.2.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1.	Information on toxicological effects	* = Based on available data, the classification criteria are not met.

Product
Acute toxicity

The product is practically non-toxic. * However, it should always be

treated with the usual care of handling chemicals.

No significant adverse health effects are expected if only small amounts (less than a mouthful) are swallowed. Ingestion of similar formulations has been reported to produce gastrointestinal discomfort with nausea, vomiting and diarrhoea. Ingestion of large quantities of a similar product has been reported to result in hypotension and lung oedema.

The acute toxicity, as measured on a similar product, is:

Route(s) of entry - ingestion LD_{50} , oral, rat: > 5000 mg/kg (method OECD 401)

- skin LD_{50} , dermal, rat: > 2000 mg/kg (method OECD 402)

- inhalation LC₅₀, inhalation, rat: > 4.72 mg/l/4 h (method OECD 403)

no signs of toxicity at this concentration

404). *

Serious eye damage/irritation Not irritating to eyes (measured on a similar product; method OECD

405). *

Respiratory or skin sensitisation ... Not sensitising (measured on a similar product; method OECD 406). *

Carcinogenicity The product contains no ingredients known to be carcinogenic. *

Reproductive toxicity The product contains no ingredients known to have adverse effects on

reproduction. *

exposure. *

STOT – repeated exposure The following has been measured on the active ingredient glyphosate:

In long-term studies with glyphosate free acid, the first minor effects (body weight and liver weight changes) were noted in rats at exposure levels of 60 - 100 mg glyphosate/kg bw/day. No signs of toxicity were



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group 45	51/4521	Page 9 of 13
Product name 45	521, GLYPHOSATE 360 g/l SL	March 2018

		found at any level, including the highest exposure level of 4800 mg glyphosate/kg bw/day. *
Aspiration hazard		The product does not present an aspiration hazard. *
Symptoms and effect delayed		Primarily irritation.
Glyphosate isopropylamine salt Acute toxicity		The substance is practically non-toxic. *
The acute toxicity of	the substance is n	neasured as:
Route(s) of entry	- ingestion	LD_{50} , oral, rat: > 2000 mg/kg (method FIFRA 81.01)
	- skin	LD_{50} , dermal, rat: > 4000 mg/kg (method FIFRA 81.02)
	- inhalation	LC ₅₀ , inhalation, rat: > 4.72 mg/l/4 h (method FIFRA 81.03) (no signs of toxicity at this concentration)
Skin corrosion/irritat	ion	Not irritating to skin (method FIFRA 81.05). *
Serious eye damage/i	irritation	Not irritating to eyes (method FIFRA 81.04). *
Respiratory or skin se	ensitisation	Not sensitising (method FIFRA 81.06). *
Glyphosate Toxicokinetics, metabolism and distribution		After oral intake, glyphosate is rapidly absorbed but only to a limited extent (approx. 30%). Metabolism is very limited and excretion is rapid and nearly complete. Distribution is generally low with residues occurring in all tissues. There is no evidence of accumulation.
Acute toxicity		The substance is practically non-toxic. * The acute toxicity of the substance is measured as:
Route(s) of entry	- ingestion	LD_{50} , oral, rat: > 5000 mg/kg (method OECD 401)
	- skin	LD_{50} , dermal, rat: > 2000 mg/kg (method OECD 402)
	- inhalation	LC_{50} , inhalation, rat: > 5 mg/l/4 h (method OECD 403) (no signs of toxicity at this concentration)
Skin corrosion/irritat	ion	Not irritating to skin (method FIFRA 81.05). *
Serious eye damage/irritation		Irritating to eyes (method FIFRA 81.04).
Respiratory or skin sensitisation		Not sensitising (method OECD 406). No allergic effects on humans have been reported. *
Carcinogenicity		No indications of carcinogenic effects were found in 8 studies on glyphosate and no study on glyphosate itself has shown possible carcinogenic effects.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 10 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

SECT	TION 12: ECOLO	OGICAL INFORMA	TION	
12.1.	.1. Toxicity		The product is a herbicide and ther green plants. It does not meet the oplants. The product is not consider invertebrates, birds and soil micro-	criteria for being harmful to aquatic red as harmful to fish, aquatic
	The ecotoxicity of	of the product is measu	nred as:	
	- Fish	Rainbow trout (One	corhynchus mykiss)	96 h-LC ₅₀ : > 1000 mg/l
	- Invertebrates	Daphnids (Daphnia	ı magna)	48 h-EC ₅₀ : > 1000 mg/l
	- Algae	Green algae (Pseud	okirchneriella subcapitata)	72-h IC ₅₀ : 189 mg/l
	The following ha	as been measured on a	similar but more concentrated produ	act:
	- Plants	Duckweed (Lemna	gibba)	7-day NOEC: 3.19 mg/l
	- Birds	Japanese quail (Cot	urnix coturnix japonica)	LD_{50} : > 3340 mg/kg
	- Earthworms	Eisenia foetida		14-day LD ₅₀ : > 10000 mg/kg soil
	- Bees	Honeybee (Apis me	llifera africanised)	LD_{50} , acute oral: $> 100 \ \mu g/bee$
12.2.	Persistence and	degradability	water treatment plants. Degradation aerobic, but anaerobic degradation Primary degradation half-lives in t circumstances, but are usually arouwater. The product contains minor amounts.	d in waste water treatment plants. ncentrations up to 100 mg/l in waste on is mainly microbiological and a does also occur. the environment vary much with und 3 - 30 days in aerobic soil and
12.3.	Bioaccumulative	e potential	See section 9 for octanol-water par	rtition coefficient.
			Glyphosate is not expected to bioaccumulation of glyphosate, bo systems, only low bioaccumulation	oth in marine and freshwater
12.4.	Mobility in soil		In the environment glyphosate is a deactivated by adsorption to clay p to soil.	not mobile, but is rapidly particles. Glyphosate binds strongly
12.5.	Results of PBT a assessment	and vPvB	The substance does not meet the co	riteria for being PBT or vPvB.
12.6.	Other adverse e	ffects	Other relevant hazardous effects in	n the environment are not known.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 11 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Remaining quantities of the material and empty but unclean packaging

should be regarded as hazardous waste.

Disposal of waste and packagings must always be in accordance with

all applicable local regulations.

possibilities for reuse or reprocessing should first be considered. If this

is not feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with

flue gas scrubbing.

Do not contaminate water, foodstuffs, feed or seed by storage or

disposal. Do not discharge to sewer systems.

Disposal of packaging It is recommended to consider possible ways of disposal in the

following order:

1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge

rinsing water to sewer systems.

2. Controlled incineration with flue gas scrubbing is possible for

combustible packaging materials.

3. Delivery of the packaging to a licensed service for disposal of

hazardous waste.

4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill, containers should be emptied completely, rinsed and punctured to make them unusable for other

purposes. If burned, stay out of smoke.

SECTION 14: TRANSPORT INFORMATION

ADR/RID/IMDG/IATA/ICAO classification

14.1.	UN number	Not classified as hazardous material for transport
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14.2. **UN proper shipping name** Not applicable

14.3. Transport hazard class(es) Not applicable

14.4. **Packing group** Not applicable

14.6. **Special precautions for user** Avoid any unnecessary contact with the product. Misuse can result in

damage to health. Do not discharge to the environment.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 12 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

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

IBC code The product is not transported in bulk by ship.

SECTION 15: REGULATORY INFORMATION

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

To our knowledge, no specific regulations apply.

All ingredients are covered by EU chemical legislation.

15.2. Chemical safety assessment A chemical safety assessment

A chemical safety assessment is not required to be included for this

product.

SECTION 16: OTHER INFORMATION

Relevant changes in the safety data sheet

Minor corrections only.

List of abbreviations

CAS Chemical Abstracts Service

Dir. Directive

DNEL Derived No Effect Level EC European Community EC₅₀ 50% Effect Concentration

EINECS European INventory of Existing Commercial Chemical

Substances

FIFRA Federal Insecticide, Fungicide and Rodenticide Act

GHS Globally Harmonized classification and labelling System of

chemicals, Fifth revised edition 2013

IBC International Bulk Chemical codeIC₅₀ 50% Inhibition Concentration

ISO International Organisation for Standardization IUPAC International Union of Pure and Applied Chemistry

LC₅₀ 50% Lethal Concentration

LD₅₀ 50% Lethal Dose

MARPOL Set of rules from the International Maritime Organisation

(IMO) for prevention of sea pollution

NOEC No Observed Effect Concentration

OECD Organisation for Economic Cooperation and Development

PBT Persistent, Bioaccumulative, Toxic PNEC Predicted No Effect Concentration

Reg. Regulation

SL Soluble concentrate

STOT Specific Target Organ Toxicity vPvB very Persistent, very Bioaccumulative

WHO World Health Organisation

References

Data measured on this and a similar formulation and acute toxicity data measured on the active ingredient are unpublished company data. Other data for glyphosate are taken from the EU evaluation of the substance.



Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690 www.fmc.com CVR No. DK 12 76 00 43

Material group	45I/4521	Page 13 of 13
Product name	4521, GLYPHOSATE 360 g/l SL	
		March 2018

Method for classification	Test data	
Used hazard statements	H302 H314 H318 H411 EUH210 EUH401	Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic to aquatic life with long lasting effects. Safety data sheet available on request. To avoid risks to human health and the environment, comply with the instructions of use.
Advice on training	This material should only be used by persons who are made awar its hazardous properties and have been instructed in the required safety precautions.	

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product vary and situations unforeseen by FMC Corporation may exist. The user has to check the validity of the information under local circumstances.

Prepared by: FMC Corporation / Cheminova A/S / GHB