



SAFETY DATA SHEET

SAPIR

13th Nov 2019

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Complying with Israeli Safety at Work Regulations (Safety Data Sheet, Classification, Packaging, Labelling and Marking of Packaging) and IS 2302, based on EU Regulation (EC) No 1272/2008 (CLP)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: SAPIR
CAS Number: Mixture
EC Number: Not applicable
REACH No: Not applicable

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

Relevant identified uses: Insecticide
Uses advised against: Uses other than those described above.

1.3 Details of the supplier of the safety data sheet

Company Name: Tapazol Chemical Works Ltd
Company Address: 1st Hasolela St.,
West Ind. Zone
Beit Shemesh
Israel, 9905415

Company Tel: 972-2-5437404

E-mail address of person responsible for this SDS: info@tapazol.co.il

1.4 Emergency telephone number

Emergency telephone number (24 hr): +972-4-7771900

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP/GHS)

Product name	GHS Classification
SAPIR 340 SC	Reproductive Toxicity, Category 2 Specific Target Organ Toxicity, Repeated Exposure, Category 2 Short term (Acute) Aquatic hazard, Category 1 Short-term (chronic) Aquatic hazard, Category 1

GHS Classification has been based on product testing data. Where test data is not available, component information has been considered.

2.2 Label elements

Labelling in accordance with Regulation 1272/2008 (CLP)(For the overall product)

Hazard pictograms:



Signal word: WARNING

Hazard statements: H361d - Suspected of damaging fertility the unborn child
 H373 - May cause damage to organs through prolonged or repeated exposure
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements: P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe dust/fume/gas/mist/ vapours/spray.
 P273 - Avoid release to the environment.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P314 - Get medical advice/attention if you feel unwell.
 P391 - Collect spillage

Supplemental Hazard Statements. EUH208 - Contains bifenazate and spirotetramat. May cause an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances :
 Not applicable.

3.2 Mixture :

Product/ Ingredient name	Identifiers	%	Classification 1272/2008/EC	M Factor	Specific conc'n limits (SCL)	Acute toxicity estimate (ATE)
Bifenazate	CAS No 149877-41-8 EC No 442-820-5 REACH No 01-0000018631- 73-XXXX	22.4	STOT RE 2 H373 Skin Sens. 1 H317 Aqu Acute 1 H400 Aqu Chronic 1 H410	1	No SCL in Annex VI	No ATE in Annex VI

Spirotetramat	CAS No 203313-25-1 EC No n/a REACH No n/a	9.3	Repr. 2 H361d STOT SE 3 H335 Eye Irrit. 2 H319 Skin Sens. 1A H317 Aqu Acute 1 H400 Aqu Chronic 1 H410	1	No SCL in Annex VI	No ATE in Annex VI
Methyl naphthalene sulfonic acid, polymer with formaldehyde, sodium salt	CAS No 81065-51-2 EC No n/a REACH No n/a	1.9	Eye Irrit. 2 H319 Aqu Chronic 1 H410	1	No SCL in Annex VI	No ATE in Annex VI

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.
See section 16 for the full text of the EUH, H and P phrases declared above.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: In case of eye contact, rinse with plenty of water for at least 20 minutes. Get medical attention.

Skin contact: Wash affected areas with soap and water to remove contamination. Remove contaminated clothing. Get medical attention if irritation develops or persists.

Inhalation: If inhaled remove person to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Suspected of damaging fertility the unborn child. May cause damage to organs through prolonged or exposure.

4.3 Indication of any immediate medical attention and special treatment needed

If any symptoms are observed, contact a physician and give them this SDS sheet. Provide general supportive measures and treat symptomatically. Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media



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Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

None known

Hazardous combustion products include Carbon Monoxide (CO), Carbon Dioxide (CO₂), Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8)
Keep upwind. Keep run-off water out of sewers and water sources. Dike for water control.
Cool containers exposed to flames with water from the side until well after the fire is out. Move container from fire area if it can be done without risk. If risk of water pollution occurs, notify appropriate authorities.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering.

For emergency responders

Keep unnecessary and unprotected personnel from entering. Ventilate well, stop flow of vapor or liquid if possible. Avoid breathing dust, mist, vapours and gases. Ensure adequate ventilation. Remove all sources of ignition.

Wear appropriate protective equipment as conditions warrant (see Section 8).

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways or air).

6.3 Methods and materials for containment and cleaning up

Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors.
Methods for Clean-Up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal (see section 13).

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not swallow. Do not breathe mist, vapors, or spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Keep container tightly closed.



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Prevention of contact: See Section 8 for information on Personal Protective Equipment.

Sanitary measures: Use methods to clean up spilled substances promptly. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Keep storage area separate from populated work areas. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Safe packaging material: Keep in original packaging.

7.3 Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values:

Ingredient name	CAS Number	Occupational exposure limits	Source
Bifenazate	149877-41-8	Short-term value: None known Long-term value: None known.	EU Community Occupational Exposure Limits (OELs)
Spirotetramat	203313-25-1	Short-term value: 10 mg/m ³ Long-term value: None known	EU Community Occupational Exposure Limits (OELs)
Methyl naphthalene sulfonic acid, polymer with formaldehyde, sodium salt	81065-51-2	Short-term value: 2.5 mg/m ³ Long-term value: None known.	EU Community Occupational Exposure Limits (OELs)

Monitoring procedures: Use methods described in European Standards.

Derived No Effect Level (DNEL):

Bifenazate

None known

Spirotetramat

None known

Additives

None known

Predicted No Effect Concentration (PNEC):

Bifenazate

None known

Spirotetramat



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None known

Additives

None known

8.2 Exposure controls

Appropriate Engineering Measures

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level.

Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Individual protection measures, such as personal protective equipment:

Eye and face protection: Wear safety glasses with side shields (or goggles). Use equipment for eye protection tested and approved under EU Standard EN 166.

Skin protection:

Hand protection: Wear protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application .

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Other skin protection: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wash hands after use.

Respiratory protection: If engineering controls do not keep airborne concentrations to an acceptable level an approved respirator should be worn. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination as a backup to engineering controls.

Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Thermal hazards: None known.

Environmental exposure controls: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



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9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Off white
Odour:	Not determined
Odour threshold:	Not determined
pH:	4 – 5
Melting point/Freezing point:	Not determined
Initial boiling point/boiling range:	Not determined
Flash point:	> 100 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not applicable.
Upper/lower flammability or explosive limits:	
Flammability limit – lower (%):	Not determined
Flammability limit – upper (%):	Not determined
Vapour pressure:	Not determined
Vapour density (air=1):	Not determined
Relative Density:	1.02-1.09
Solubility(ies):	Forms a suspension
Partition coefficient Octanol/Water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity at 20°C:	800-1000 mPas
Explosive properties:	Not determined
Oxidising properties:	Not determined

9.2 Other information:

No further data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions anticipated under normal storage and handling conditions.

10.2 Chemical stability

Stable under normal ambient and anticipated conditions of use.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Materials to avoid include; Strong oxidizing agents, Strong reducing agents, Acids

10.6 Hazardous Decomposition products:

Carbon oxides, Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects



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Acute toxicity:

Product/ingredient name	Test	Species	Dose
Bifenazate	LD ₅₀ Oral	Rat	> 2000 mg/kg
	LD ₅₀ Dermal	Rat	> 2000 mg/kg
	LC ₅₀ , Inhalation	Rat	> 4.4 mg/l
Spirotetramat	LD ₅₀ Oral	Rat	> 2000 mg/kg
	LD ₅₀ Dermal	Rat	None known
	LC ₅₀ , Inhalation	Rat	4.38 mg/l
Methyl naphthalene sulfonic acid, polymer with formaldehyde, sodium salt	LD ₅₀ Oral	Rat	4786 mg/kg
	LD ₅₀ Dermal	Rabbit	None known
	LC ₅₀ , Inhalation	Rat	None known
PRODUCT TEST RESULTS	LD ₅₀ Oral	Rat	5000 mg/kg
	LD ₅₀ Dermal	Rat	> 2000 mg/kg
	LC ₅₀ , Inhalation	Rat	> 5.456 mg/L

Skin corrosion/irritation:

Product testing showed that there was no sign of systemic adverse effect in any treated rabbit. Therefore this product is not classified as an skin irritant.

Serious eye damage/eye irritation:

Product testing showed that there was no corneal epithelium damage in any rabbits. Therefore this product is not classified as an eye irritant.

Respiratory or skin sensitization:

Product testing showed that there was no indication of skin irritation at the treatment site or systemic toxicity in treated mice. This product is not classified as a skin sensitizer.
Not expected to cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity:

Not expected to cause genetic defects.

Carcinogenicity:

Not expected to cause cancer.

Reproductive toxicity:

Suspected of damaging fertility the unborn child.

STOT – Single exposure:

Not expected to cause damage to organs after a single exposure.

STOT – Repeat exposure:

May cause damage to organs through prolonged or exposure.

Aspiration hazard:

Not expected to be an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Substance name	Toxicity to fish / other aquatic invertebrates
Bifenazate	Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 0,58 mg/l - 96 h LC50 - Carassius auratus (goldfish) - 0,76 mg/l - 96 h



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	Toxicity to daphnia and other aquatic invertebrates - LC50 - Daphnia (water flea) - 0,50 mg/l - 48 h Toxicity to algae EbC50 - Skeletonema costatum - 0,30 mg/l - 96 h ErC50 - SELENASTRUM - 0,90 mg/l - 96 h
Spirotetramat	Toxicity to daphnia and other aquatic invertebrates - LC50 - Daphnia (water flea) - > 42,7 mg/l - 48 h
Methyl naphthalene sulfonic acid, polymer with formaldehyde, sodium salt	Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia (water flea) - 34 mg/l - 48h Toxicity to algae ErC50 - Desmodesmus subspicatus (Scenedes subspicatus) - 74.4 mg/l - 96h

12.2 Persistence and Degradability:

No data available for this product

12.3 Bioaccumulative potential:

No data available for this product.

12.4 Mobility in soil:

No data available for this product.

12.5 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects:

Very toxic to aquatic life with long lasting effects.

12.7 Additional information:

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Product

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied. Handle uncleaned containers like the product itself. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

International transport regulations

14.1 UN number:

ADR/RID: UN 3082

IMDG: UN 3082

IATA: UN 3082



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14.2 Proper shipping name:

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(
BIFENAZATE, SPIROTETRAMAT)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(
BIFENAZATE, SPIROTETRAMAT)

IATA: Environmentally hazardous substance, liquid, n.o.s.(Bifenazate, Spirotetramat)

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packing group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazard

Marine Pollutant: YES

14.6 Special precautions for user

No data available

14.7 Transport to bulk according to Annex II of MARPOL and the IBC Code

None known

Section 15: REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of:

EU Commission Regulation (EU) 2015/830 (Reach)

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

EINECS: All components in this product are listed on the European Inventory of Existing Chemical Substance

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out on this product.

Section 16: OTHER INFORMATION

Full text of H & P-Statements referred to under sections 2 and 3.

Eye Irrit	Eye Irritation
Skin Sens	Skin Sensitization
Repr	Reproductive toxicity
STOT RE	Specific target organ toxicity repeated exposure
STOT SE	Specific target organ toxicity single exposure
Aqu Acute	Aquatic toxicity Acute
Aqu Chron	Aquatic toxicity Chronic

H317 May cause an allergic skin reaction



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H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/ vapours/spray.
P273	Avoid release to the environment.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage
P405	Store locked up.
P501	Dispose of contents/container to a suitable disposal site in accordance with local/regional/national/ international regulations.

Training advice: Before using/handling the product one must read carefully present SDS.

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European)
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
CLP:	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL:	Derived No Effect Level
EC50:	Half maximal effective concentration
EINECS:	European Inventory of Existing Commercial Chemical Substances
EU:	European Union
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
IATA:	International Air Transport Association
IBC:	International Bulk Code
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
MARPOL:	International Convention for the Prevention of Pollution from Ships
PBT:	Persistent, Bioaccumulative and Toxic
PNEC:	Predicted No Effect Level
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
SCBA:	Self Contained Breathing Apparatus
SCL:	Specific Concentration Limits
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average
UN:	United Nations
VPvB:	Very Persistent and very Bioaccumulative
WEL:	Workplace Exposure Limit

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