

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 9.12 Revision Date 24.04.2025 Print Date 04.05.2025

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1 Product identifiers

Product name : Phytochemical Metabolite Library Of

Standards Plate 1 (Ethanol Soluble)

Product Number : PHYTOMLS01

Brand : Sigma

REACH No. : This product is a mixture. REACH Registration Number see

section 3.

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3

CHEMIKART

1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, (Category 3) H226: Flammable liquid and vapor.

Acute toxicity, (Category 2) H300: Fatal if swallowed.

Acute toxicity, (Category 1) H330: Fatal if inhaled.

Acute toxicity, (Category 3) H311: Toxic in contact with skin.

Skin corrosion, (Sub-category H314: Causes severe skin burns and eye

1B) damage.

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Serious eye damage, (Category 1)	H318: Causes serious eye damage.
Respiratory sensitization, (Category 1)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, (Category 1)	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, (Category 2)	H341: Suspected of causing genetic defects.
Carcinogenicity, (Category 2)	H351: Suspected of causing cancer.
Reproductive toxicity, (Category 1B)	H360: May damage fertility or the unborn child.
Specific target organ toxicity - single exposure, (Category 2), Lungs	H371: May cause damage to organs if inhaled.
Specific target organ toxicity - single exposure, (Category 3), Respiratory system	H335: May cause respiratory irritation.
Aspiration hazard, (Category 1)	H304: May be fatal if swallowed and enters airways.
Short-term (acute) aquatic hazard, (Category 1)	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, (Category 1)	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram

Signal Word	Danger
Hazard Statements	
H226	Flammable liquid and vapor.
H300 + H330	Fatal if swallowed or if inhaled.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties
	if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H371	May cause damage to organs (Lungs) if inhaled.

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H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and
	other ignition sources. No smoking.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word	Danger
Hazard Statements H311 H334	Toxic in contact with skin. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 H341 H351 H360 H304 H314 H300 + H330	May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer. May damage fertility or the unborn child. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. Fatal if swallowed or if inhaled.
Precautionary Statements P280	Wear protective gloves/ protective clothing/ eye protection/ face
P301 + P330 + P331 P303 + P361 + P353	protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

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.

Ecological information:

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The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Refer to component SDS

SECTION 4: First aid measures

Refer to component SDS

SECTION 5: Firefighting measures

Refer to component SDS

SECTION 6: Accidental release measures

Refer to component SDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage stabilityRecommended storage temperature -20 °C

Storage class

Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

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

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SECTION 8: Exposure controls/personal protection

Refer to component SDS

SECTION 9: Physical and chemical properties

Refer to component SDS

SECTION 10: Stability and reactivity

Refer to component SDS

SECTION 11: Toxicological information

Refer to component SDS

SECTION 12: Ecological information

Refer to component SDS

SECTION 13: Disposal considerations

Refer to component SDS

SECTION 14: Transport information

14.1 UN number

ADR/RID: 3316 IMDG: 3316 IATA: 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT IMDG: CHEMICAL KIT IATA: Chemical kit

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Tunnel restriction code : (E)

Further information : No data available

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14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Refer to component SDS

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

ECI	10N 16: Other informati	ion		
	Kit Components: Asiatic acid 2-Undecanone	Sigma Aldrich	A2612 W309301	Aquatic Acute 1; Aquatic Chronic 1; H410
	(-)-Bornyl acetate(±)-a-LipoamideGenistein(±)-Naringenin(-)-Catechin	Aldrich Sigma-Aldrich Sigma Aldrich Sigma	B55203 T5875 G6649 N5893 C0567	Acute Tox. 4; H302 Acute Tox. 4; H302 Acute Tox. 4; H302 Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
	(-)-Epigallocatechin Carnosic acid, from Rosmarinus officinalis	Sigma-Aldrich Sigma	E3768 C0609	SE 3, H313, H319, H333
	Rotenone	Sigma-Aldrich	45656	Acute Tox. 2; Acute Tox. 1; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H300 + H330, H315, H319, H335, H410
	(-)-Epicatechin gallate	Sigma-Aldrich	E3893	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
	Narirutin (S)-(—)-Limonene	Cerilliant Aldrich	PHY83339 218367	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H226, H304, H315, H317, H410
	Proline Beta 1,3,5- Trimethoxybenzene	Aldrich	138827	Acute Tox. 4; H302
	10-Undecen-1-ol (R)-(+)-1,2-Dithiolane- 3-pentanoic acid	Aldrich Aldrich	U2008 579602	
	(-)-a-Bisabolol 1'-Acetoxychavicol acetate	Aldrich Cerilliant	14462 PHY82458	Aquatic Chronic 3; H412
	(+)-Abscisic acid	Sigma	A4906	Aquatic Acute 1; Aquatic Chronic 1; H410
	Glabridin	Sigma	G9548	Acute Tox. 4; H302 + H312 + H332

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Matairesinol (-)-Epigallocatechin gallate	Sigma-Aldrich Sigma	40043 E4143	Acute Tox. 4; Eye Irrit. 2; Skin Sens. 1; Aquatic Chronic 2; H302, H317, H319, H411
AT101 2-Pyrrolidinone	Sigma Aldrich	SML0433 P74370	Eye Irrit. 2; Repr. 1B; H319, H360D
trans-2-Hexen-1-al	Aldrich	W256005	Flam. Liq. 3; Acute Tox. 4; Acute
1-Phenylethylamine			Tox. 3; H226, H302, H311 Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H302 + H312, H314
2-Butylfuran 2-Octanone	Aldrich Aldrich	L159778 O4709	Flam. Liq. 3; H226 Flam. Liq. 3; Acute Tox. 4; H226, H312
1-Methylnaphthalene	Supelco	442430	Acute Tox. 4; Asp. Tox. 1; Aquatic Chronic 2; H302, H304, H411
1-Furfurylpyrrole	Aldrich	W328400	Acute Tox. 4; H302 + H312 + H332
4-Allylanisole	Aldrich	A29208	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Muta. 2; Carc. 2; Aquatic Chronic 3; H302, H315, H317, H319, H341, H351, H412
Gramine	Aldrich	G10806	Acute Tox. 4; H302 + H312
2-Tridecanone	Aldrich	W338818	Aquatic Acute 1; Aquatic Chronic 1; H410
trans-Piceatannol	Supelco	PHL83891	Acute Tox. 4; H302 + H312 + H332
Fisetin Terpinolene	Sigma-Aldrich Aldrich	PHL82542 W304603	Skin Sens. 1; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 3; H304, H317, H410
3-Indoleacetonitrile 3-Methylsulfinylpropyl isothiocyanate	Aldrich	129453	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H301 + H311 + H331, H315, H319, H335, H410
3,4- Dihydroxyhydrocinnamic acid	Aldrich	102601	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Guaiazulene Indole-3-butyric acid Bis(2-Methyl-3-furyl) disulfide	Aldrich Sigma-Aldrich Aldrich	G11004 45532 W325900	Acute Tox. 4; H302 Acute Tox. 3; H301 Skin Irrit. 2; Eye Dam. 1; H315, H318
Muscone Chrysin Rhein	Supelco Aldrich Sigma	PHL89737 C80105 R7269	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Madecassic acid 3,4-Dicaffeoylquinic acid Acetophenone	Sigma-Aldrich Supelco Supelco	PHL80229 PHL80425 442438	Acute Tox. 4; Eye Irrit. 2; H302, H319
a-Terpinene	Sigma	T2259	Flam. Liq. 3; Acute Tox. 4; Eye

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			Irrit. 2; Skin Sens. 1B; Asp. Tox. 1; Aquatic Chronic 2; H226, H302, H304, H317, H319, H411
Linalool	Cerilliant	PHY80885	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; H315, H317, H319
Acetylsalicylic acid (-)-beta-Elemene	Sigma Sigma-Aldrich		Acute Tox. 4; H302
5-Methoxypsoralen	Aldrich	275727	Skin Sens. 1; Muta. 2; Carc. 2; H317, H341, H351
Apigenin Atropine	Sigma-Aldrich		Acute Tox. 2; H300 + H330
Boldine	Sigma-Aldrich	6/592	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H302, H315, H319, H335
α-Mangostin Baicalin	Sigma Cerilliant	M3824 PHY89322	Acute Tox. 4; H302 Acute Tox. 4; H302
Agnuside	Sigma	SMB00189	Acute Tox. 4; H302
Cinnamyl alcohol	Aldrich	108197	Acute Tox. 4; Skin Sens. 1; Aquatic Chronic 2; H302, H317, H411
Allyl disulfide	Aldrich	317691	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H301, H315, H319, H335
D-Carvone	Aldrich	W224928	Skin Sens. 1A; H317
D-Camphor	Aldrich	W223018	Flam. Sol. 2; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 2;
Eucalyptol	Aldrich	W246506	H228, H315, H318, H332, H371 Flam. Liq. 3; Skin Sens. 1;
Lucaryptor			H226, H317
2- Methoxycinnamaldehyde	Aldrich	W318101	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Biochanin A	Aldrich	145637	
Capsaicin	Sigma	C190	Acute Tox. 2; Skin Irrit. 2; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; STOT SE 3; H300,
(-)-bilobalide From	Sigma	B9031	H315, H317, H318, H334, H335
Ginkgo Biloba Leaves	Cianaa Alduiah	00500500	
Chlorogenic acid (-)-Arctigenin	Sigma-Aldrich Sigma	00500590 SMB00075	
Corilagin	Supelco	PHL80390	
Camphene	Aldrich	W222901	Flam. Sol. 1; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1; H228, H319, H410
Cyclohexaneacetic acid	Aldrich	W234702	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Coumarin	Aldrich	C85557	Acute Tox. 3; Skin Sens. 1; H301 + H311, H317
(R) - $(+)$ - β -Citronellol	Aldrich	303461	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
5-Decanolide	Aldrich	298069	, , ,,
Curcumol Daidzein	Cerilliant Sigma	PHY82299 D7802	Skin Irrit. 2; Eye Irrit. 2; H315,
Delphinidin chloride	Cerilliant	PHY89625	H319

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Dihydrocapsaicin	Sigma	M1022	Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H300, H315, H319, H335
Cryptochlorogenic acid Curcumin Daidzin	Cerilliant Sigma Cerilliant	PHY80393 C1386 PHY89182	·
γ-Terpinene	Sigma	T2134	Flam. Liq. 3; Repr. 2; Aquatic Chronic 2; H226, H361, H411
Benzyl isothiocyanate	Aldrich	W442800	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; Skin Sens. 1; STOT SE 3; H302, H315, H317, H319, H334, H335
cis-3,7-Dimethyl-2,6- octadien-1-ol Eugenol	Aldrich	268909	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B; H315, H317, H319 Eye Irrit. 2; Skin Sens. 1; H317, H319
Flavone	Aldrich	F2003	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Costunolide trans,trans-Farnesyl acetate	Cerilliant Sigma	PHY89611 F2916	Skin Sens. 1; H317
Emodin y-Glu-Phe	Sigma	E7881	Acute Tox. 4; H302
Diosmetin Diosgenin Ganoderic acid A	Cerilliant Sigma Cerilliant	PHY82526 D1634 PHY89668	



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Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. -Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture		Classification procedure:
Flam. Liq.3	H226	Calculation method
Acute Tox.2	H300	Calculation method
Acute Tox.1	H330	Calculation method
Acute Tox.3	H311	Calculation method
Skin Corr.1B	H314	Calculation method
Eye Dam.1	H318	Calculation method
Resp. Sens.1	H334	Calculation method
Skin Sens.1	H317	Calculation method
Muta.2	H341	Calculation method
Carc.2	H351	Calculation method
Repr.1B	H360	Calculation method
STOT SE2	H371	Calculation method
STOT SE3	H335	Calculation method
Asp. Tox.1	H304	Calculation method

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Aquatic Acute1 H400 Calculation method Aquatic Chronic1 H410 Calculation method

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Kit Components:

Asiatic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A2612					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

2-Undecanon	е				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Very toxic to	Avoid release to	
W309301			aquatic life with	the	
			long lasting	environment.	
			effects.	Collect spillage.	
				Dispose of	
				contents/	
				container to an	
			VIII	approved waste	
				disposal plant.	

(-)-Bornyl acetate					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - B55203					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

(±)-α-Lipoamide							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma-Aldrich		Warning	Harmful if	Wash skin			
- T5875			swallowed.	thoroughly after handling. IF SWALLOWED:			
				Call a POISON			
				CENTER/ doctor			
				if vou feel			

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unwell. Dispose
of contents/
container to an
approved waste
disposal plant.
Do not eat,
drink or smoke
when using this
product.

Genistein					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Warning	Harmful if	Wash skin	
G6649			swallowed.	thoroughly after	
				handling. IF	
				SWALLOWED:	
				Call a POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Dispose	
				of contents/	
				container to an	
				approved waste	
				disposal plant.	
				Do not eat,	
				drink or smoke	
				when using this	
				product.	

(±)-Naring	enin				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Harmful if	Wash skin	
N5893			swallowed.	thoroughly after	
				handling. IF	
				SWALLOWED:	
				Call a POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Dispose	
				of contents/	
				container to an	
				approved waste	
				disposal plant.	
				Do not eat,	
				drink or smoke	
				when using this	
				product.	

(-)-Catechin					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Warning	Causes skin irritation.	Avoid breathing dust. IF ON	

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C0567	Causes serious	SKIN: Wash	
	eye irritation.	with plenty of	
	May cause	water. Wash	
	respiratory	skin thoroughly	
	irritation.	after handling.	
		IF IN EYES:	
		Rinse cautiously	
		with water for	
		several minutes.	
		Remove contact	
		lenses, if	
		present and	
		easy to do.	
		Continue	
		rinsing. Use	
		only outdoors or	
		in a well-	
		ventilated area.	
		Wear protective	
		gloves/ eye	
		protection/ face	
		protection.	

(-)-Epigallocatechin						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma-Aldrich - E3768			ИK	AR	No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.	

Carnosic acid, from Rosmarinus officinalis						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma -					No hazard	
C0609					pictogram, no	
					signal word, no	
					hazard	
					statement(s), no	
					precautionary	
					statement(s)	
					required.	

Rotenone					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich		Danger	Fatal if	Do not breathe	
- 45656			swallowed or if	dust. IF ON	
			inhaled.	SKIN: Wash	
			Causes skin	with plenty of	
			irritation.	water. Wash	

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Causes serious	skin thoroughly	
eye irritation.	after handling.	
May cause	IF INHALED:	
respiratory	Remove person	
irritation.	to fresh air and	
Very toxic to	keep	
aquatic life with	comfortable for	
long lasting	breathing.	
effects.	Immediately call	
	a POISON	
	CENTER/ doctor.	
	Avoid release to	
	the	
	environment. IF	
	IN EYES: Rinse	
	cautiously with	
	water for	
	several minutes.	
	Remove contact	
	lenses, if	
	present and	
	easy to do.	
	Continue	
	rinsing.	

(-)-Epicatechin gallate						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma-Aldrich - E3893		Warning	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing dust. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.		

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Narirutin					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Cerilliant -					No hazard
PHY83339					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.

(S)- $(-)$ -Limone	ene				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Danger	Flammable	Keep away	
218367			liquid and vapor.	from heat, hot	
			May be fatal if	surfaces,	
			swallowed and	sparks, open	
			enters airways.	flames and	
			Causes skin irritation.	other ignition sources. No	
			May cause an	smoking. IF	
			allergic skin	SWALLOWED:	
			reaction.	Immediately call	
			Very toxic to	a POISON	
			aquatic life with	CENTER/ doctor.	
			long lasting	Avoid release to	
			effects.	the	
	7			environment. IF	
				ON SKIN (or	
				hair): Take off	
				immediately all contaminated	
				clothing. Rinse	
				skin with water.	
				Wear protective	
				gloves/	
				protective	
				clothing/ eye	
				protection/ face	
				protection. Do	
				NOT induce	
				vomiting.	

Proline Beta					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
					No hazard
					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)

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		required.

1,3,5-Trimeth	oxybenzene				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Harmful if	Wash skin	
138827			swallowed.	thoroughly after	
				handling. IF	
				SWALLOWED:	
				Call a POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Dispose	
				of contents/	
				container to an	
				approved waste	
				disposal plant.	
				Do not eat,	
				drink or smoke	
				when using this	
				product.	

10-Undecen-1-ol						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Aldrich - U2008	H		/IK	AR	No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.	

(R)- $(+)$ -1,2-	(R)-(+)-1,2-Dithiolane-3-pentanoic acid						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Aldrich -					No hazard		
579602					pictogram, no		
					signal word, no		
					hazard		
					statement(s), no		
					precautionary		
					statement(s)		
					required.		

(-)-α-Bisabolol					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -			Harmful to	Avoid release to	
14462			aquatic life with	the	
			long lasting	environment.	
			effects.	Dispose of	
				contents/	
				container to an	

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		approved waste	
		disposal plant.	

1'-Acetoxych	avicol acetate	e			
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Cerilliant - PHY82458					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

(+)-Abscisic acid						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma -		Warning	Very toxic to	Avoid release to		
A4906			aquatic life with	the		
			long lasting	environment.		
			effects.	Collect spillage.		
				Dispose of		
				contents/		
				container to an		
				approved waste		
				disposal plant.		

Glabridin					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Warning	Harmful if	Avoid breathing	
G9548			swallowed, in	dust. IF	
			contact with skin	SWALLOWED:	
			or if inhaled.	Call a POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Wash	
				skin thoroughly	
				after handling.	
				IF ON SKIN:	
				Wash with	
				plenty of	
				water.Call a	
				POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Wear	
				protective	
				gloves/	
				protective	
				clothing. IF	
				INHALED:	
				Remove person	
				to fresh air and	

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keep comfortable for breathing. Call a POISON	
CENTER/ doctor if you feel unwell.	

Matairesinol					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich					No hazard
- 40043					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.

(-)-Epigalloca	atechin galla	te			
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Warning	Harmful if	Avoid breathing	
E4143			swallowed.	dust. IF	
			May cause an	SWALLOWED:	
			allergic skin	Call a POISON	
			reaction.	CENTER/ doctor	
			Causes serious	if you feel	
			eye irritation.	unwell. Avoid	
			Toxic to aquatic	release to the	
			life with long	environment. IF	
			lasting effects.	ON SKIN: Wash	
				with plenty of	
				water. Wear	
				protective	
				gloves/ eye	
				protection/ face protection. IF IN	
				EYES: Rinse	
				cautiously with	
				water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing.	

AT101					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma -					No hazard pictogram, no

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SML0433		signal word, no	
		hazard	
		statement(s), no	,
		precautionary	
		statement(s)	
		required.	

2-Pyrrolidino	ne				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Danger	Causes serious	Do not handle	
P74370			eye irritation.	until all safety	
			May damage the	precautions	
			unborn child.	have been read	
				and understood.	
				IF IN EYES:	
				Rinse cautiously	
				with water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. Wash	
				skin thoroughly	
				after handling.	
				IF exposed or	
		\vdash \sqcap		concerned: Get	
				medical advice/	
				attention.	
				Wear protective	
				gloves/	
				protective clothing/ eye	
				protection/ face	
				protection, lace	
				eye irritation	
				persists: Get	
				medical advice/	
				attention.	

Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Danger	Flammable	Keep away	
W256005			liquid and vapor.	from heat, hot	
			Harmful if	surfaces,	
			swallowed.	sparks, open	
			Toxic in contact	flames and	
			with skin.	other ignition	
				sources. No	
				smoking. IF	
				SWALLOWED:	
				Call a POISON	

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CENTER/ doctor
if you feel
unwell. Keep
container tightly
closed. IF ON
SKIN (or hair):
Take off
immediately all
contaminated
clothing. Rinse
skin with water.
Ground and
bond container
and receiving
equipment.
Wear protective
gloves/
protective
clothing/ eye
protection/ face
protection.

1-Phenyletl Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	Fictogram	Word	Statements	Statements	information
identinei			Harmful if		IIIIOIIIIatioii
		Danger	swallowed or in	Wear protective	
			contact with	gloves/	
			skin.	protective clothing/ eye	
			Causes severe	protection/ face	
			skin burns and	protection. IF SWALLOWED:	
			eye damage.	Call a POISON	
				CENTER/ doctor	
				if you feel	
				unwell. IF ON	
				SKIN (or hair):	
				Take off	
				immediately all	
				contaminated	
				clothing. Rinse	
				skin with water.	
				IF INHALED:	
				Remove person	
				to fresh air and	
				keep	
				comfortable for	
				breathing.	
				Immediately call	
				a POISON	
				CENTER/ doctor.	
				IF IN EYES:	
				Rinse cautiously	
				with water for	
				several minutes.	

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Remove contact	
lenses, if	
present and	
easy to do.	
Continue	
rinsing. Take	
off contaminated	
clothing and	
wash it before	
reuse.	

2-Butylfuran					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Flammable	Keep away	
L159778			liquid and vapor.	from heat, hot	
				surfaces,	
				sparks, open	
				flames and	
				other ignition	
				sources. No	
				smoking. Keep	
				container tightly	
				closed.	
				Ground and	
				bond container	
				and receiving	
				equipment.	
				Use explosion-	
				proof electrical/	
				ventilating/	
				lighting/	
				equipment.	
				Use non-	
				sparking tools.	
				Take action to	
				prevent static	
				discharges.	

2-Octanone					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Flammable	Keep away	
04709			liquid and vapor.	from heat, hot	
			Harmful in	surfaces,	
			contact with	sparks, open	
			skin.	flames and	
				other ignition	
				sources. No	
				smoking. IF ON	
				SKIN (or hair):	
				Take off	
				immediately all	
				contaminated	
				clothing. Rinse	

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skin with water.
Keep container
tightly closed.
Ground and
bond container
and receiving
equipment.
Use explosion-
proof electrical/
ventilating/
lighting/
equipment.
Wear protective
gloves/
protective
clothing/ eye
protection/ face
protection.

1-Methylnaphthalene							
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information		
Supelco - 442430		Danger	Harmful if swallowed. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.	Wash skin thoroughly after handling. IF SWALLOWED: Immediately call a POISON CENTER/ doctor.Store locked up. Avoid release to the environment. Do NOT induce vomiting.			

1-Furfurylpyrrole							
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information		
					IIIIOIIIIatioii		
Aldrich -		Warning	Harmful if	Avoid breathing			
W328400			swallowed, in	mist or vapors.			
			contact with skin	IF SWALLOWED:			
			or if inhaled.	Call a POISON			
				CENTER/ doctor			
				if you feel			
				unwell. Wash			
				skin thoroughly			
				after handling.			
				IF ON SKIN:			
				Wash with			
				plenty of			
				water.Call a			
				POISON			

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		CENTER/ doctor	
		if you feel	
		unwell. Wear	
		protective	
		gloves/	
		protective	
		clothing. IF	
		INHALED:	
		Remove person	
		to fresh air and	
		keep	
		comfortable for	
		breathing. Call a	
		POISON	
		CENTER/ doctor	
		if you feel	
		unwell.	

4-Allylanisole					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Harmful if	Avoid release to	
A29208			swallowed.	the	
			Causes skin	environment. IF	
			irritation.	SWALLOWED:	
			May cause an	Call a POISON	
			allergic skin	CENTER/ doctor	
			reaction.	if you feel	
			Causes serious	unwell. Wear	
			eye irritation.	protective	
			Suspected of	gloves/	
			causing genetic	protective	
			defects.	clothing/ eye	
			Suspected of causing cancer.	protection/ face protection. IF	
			Harmful to	ON SKIN: Wash	
			aquatic life with	with plenty of	
			long lasting	water. IF IN	
			effects.	EYES: Rinse	
			Circusi	cautiously with	
				water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. IF	
				exposed or	
				concerned: Get	
				medical advice/	
				attention.	

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Gramine					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Harmful if	Wash skin	
G10806			swallowed or in	thoroughly after	
			contact with	handling. IF	
			skin.	SWALLOWED:	
				Call a POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Dispose	
				of contents/	
				container to an	
				approved waste disposal plant.	
				Wear protective	
				gloves/	
				protective	
				clothing. IF ON	
				SKIN: Wash	
				with plenty of	
				water.Call a	
				POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Take	
				off contaminated	
				clothing and	
				wash it before	
				reuse.	

2-Tridecanone							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Aldrich -		Warning	Very toxic to	Avoid release to			
W338818			aquatic life with	the			
			long lasting	environment.			
			effects.	Collect spillage.			
				Dispose of			
				contents/			
				container to an			
				approved waste			
				disposal plant.			

trans-Piceata	trans-Piceatannol							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental			
identifier		Word	Statements	Statements	information			
Supelco -		Warning	Harmful if	Avoid breathing				
PHL83891			swallowed, in	dust. IF				
			contact with skin	SWALLOWED:				
			or if inhaled.	Call a POISON				
				CENTER/ doctor				
				if you feel				
				unwell. Wash				
				skin thoroughly				

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after handling.
IF ON SKIN:
Wash with
plenty of
water.Call a
POISON
CENTER/ doctor
if you feel
unwell. Wear
protective
gloves/
protective
clothing. IF
INHALED:
Remove person
to fresh air and
keep
comfortable for
breathing. Call a
POISON
CENTER/ doctor
if you feel
unwell.

Fisetin					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - PHL82542			ЛIK	AR	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Terpinolene					
Terpinolene Product identifier Aldrich - W304603	Pictogram	Signal Word Danger	Hazard Statements May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.	Precautionary Statements Avoid breathing mist or vapors. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Avoid release to the environment. IF ON SKIN: Wash	Supplemental information
				with plenty of water. Wear protective gloves. Do NOT induce vomiting.	

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3-Indoleaceto	3-Indoleacetonitrile						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Aldrich -					No hazard		
129453					pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.		

Product	finylpropyl iso Pictogram	Signal	Hazard	Precautionary	Supplemental
dentifier		Word	Statements	Statements	information
		Danger	Toxic if	Avoid release to	
			swallowed, in	the	
			contact with skin	environment. IF	
			or if inhaled.	SWALLOWED:	
			Causes skin	Immediately call	
			irritation.	a POISON	
			Causes serious	CENTER/ doctor.	
			eye irritation.	Wear protective	
			May cause	gloves/	
			respiratory	protective	
			irritation.	clothing/ eye	
			Very toxic to	protection/ face	
			aquatic life with	protection. IF	
			long lasting	ON SKIN: Wash	
			effects.	with plenty of	
				water.Call a	
				POISON	
				CENTER/ doctor if you feel	
				unwell. IF	
				INHALED:	
				Remove person	
				to fresh air and	
				keep	
				comfortable for	
				breathing. Call a	
				POISON	
				CENTER/ doctor.	
				IF IN EYES:	
				Rinse cautiously	
				with water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing.	

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3,4-Dihydro	xyhydrocinna	mic acid			
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Causes skin	Avoid breathing	
102601			irritation.	dust. IF ON	
			Causes serious	SKIN: Wash	
			eye irritation.	with plenty of	
			May cause	water. Wash	
			respiratory	skin thoroughly	
			irritation.	after handling.	
				IF IN EYES:	
				Rinse cautiously	
				with water for	
				several minutes.	
				Remove contact	
				lenses, if present and	
				easy to do.	
				Continue	
				rinsing. Use	
				only outdoors or	
				in a well-	
				ventilated area.	
				Wear protective	
				gloves/ eye	
				protection/ face	
				protection.	

Guaiazulene					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Harmful if	Wash skin	
G11004			swallowed.	thoroughly after	
				handling. IF	
				SWALLOWED:	
				Call a POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Dispose	
				of contents/	
				container to an	
				approved waste	
				disposal plant.	
				Do not eat,	
				drink or smoke	
				when using this	
				product.	

Indole-3-butyric acid							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma-Aldrich		Danger	Toxic if	Wash skin			
- 45532			swallowed.	thoroughly after			
				handling. IF			
				SWALLOWED:			

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Immediately call
a POISON
CENTER/
doctor.Store
locked up.
Dispose of
contents/
container to an
approved waste
disposal plant.
Do not eat,
drink or smoke
when using this
product.

Bis(2-Methyl-3-furyl) disulfide						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Aldrich -		Danger	Causes skin	Wash skin		
W325900			irritation.	thoroughly after		
			Causes serious	handling. IF ON		
			eye damage.	SKIN: Wash		
				with plenty of		
				water. Wear		
				protective		
				gloves/ eye		
				protection/ face		
				protection. IF IN		
				EYES: Rinse		
				cautiously with water for		
				several minutes.		
				Remove contact		
				lenses, if		
				present and		
				easy to do.		
				Continue		
				rinsing. If skin		
				irritation occurs:		
				Get medical		
				advice/		
				attention.		
				Take off		
				contaminated		
				clothing and		
				wash it before		
		1		reuse		

Muscone					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Supelco - PHL89737					No hazard pictogram, no signal word, no hazard

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			statement(s), no
			precautionary
			statement(s)
			required.

Chrysin					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - C80105					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Rhein					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma - R7269		Warning	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing dust. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face	Iniormation

Madecassic ad	Madecassic acid						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information		
Sigma-Aldrich - PHL80229					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s)		

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			required.

3,4-Dicaffeo	3,4-Dicaffeoylquinic acid							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental			
identifier		Word	Statements	Statements	information			
Supelco -					No hazard			
PHL80425					pictogram, no			
					signal word, no			
					hazard			
					statement(s), no			
					precautionary			
					statement(s)			
					required.			

Acetophenor	ne				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Supelco -		Warning	Harmful if	Wash skin	
442438			swallowed.	thoroughly after	
			Causes serious	handling. IF	
			eye irritation.	SWALLOWED:	
				Call a POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Dispose	
				of contents/	
				container to an	
				approved waste	
				disposal plant.	
				Wear eye	
				protection/ face	
				protection. IF IN	
				EYES: Rinse	
				cautiously with water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. If eye	
				irritation	
				persists: Get	
				medical advice/	
				attention.	

a-Terpinen	e				_
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Danger	Flammable	Keep away	
T2259			liquid and vapor.	from heat, hot	
			Harmful if	surfaces,	
			swallowed.	sparks, open	
			May be fatal if	flames and	

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swallowed and	other ignition	
enters airways.	sources. No	
May cause an	smoking. IF	
allergic skin	SWALLOWED:	
reaction.	Immediately call	
Causes serious	a POISON	
eye irritation.	CENTER/ doctor.	
Toxic to aquatic	Avoid release to	
life with long	the	
lasting effects.	environment. IF	
	ON SKIN (or	
	hair): Take off	
	immediately all	
	contaminated	
	clothing. Rinse	
	skin with water.	
	Wear protective	
	gloves/	
	protective	
	clothing/ eye	
	protection/ face	
	protection. Do	
	NOT induce	
	vomiting.	

Linalool	T 5	T a	T., .	T	<u> </u>
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Cerilliant -		Warning	Causes skin	Avoid breathing	
PHY80885			irritation.	mist or vapors.	
			May cause an	IF ON SKIN:	
			allergic skin	Wash with	
			reaction.	plenty of water.	
			Causes serious	Wash skin	
			eye irritation.	thoroughly after	
				handling. IF IN	
				EYES: Rinse	
				cautiously with	
				water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing.	
				Contaminated	
				work clothing	
				should not be	
				allowed out of	
				the workplace.	
				Wear protective	
				gloves/ eye	
				protection/ face	
				protection.	

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Acetylsalicylic acid						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma -		Warning	Harmful if	Wash skin		
A5376			swallowed.	thoroughly after		
				handling. IF		
				SWALLOWED:		
				Call a POISON		
				CENTER/ doctor		
				if you feel		
				unwell. Dispose		
				of contents/		
				container to an		
				approved waste		
				disposal plant.		
				Do not eat,		
				drink or smoke		
				when using this		
				product.		

(-)-beta-Elemene					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich					No hazard
- 63965					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
			/		statement(s)
					required.

5-Methoxypsoralen						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Aldrich - 275727		Warning	May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer.	Do not handle until all safety precautions have been read and understood. IF ON SKIN: Wash with plenty of water. Avoid breathing dust. IF exposed or concerned: Get medical advice/ attention. Contaminated work clothing should not be allowed out of the workplace.		

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Wear protective
gloves/
protective
clothing/ eye
protection/ face
protection.

Apigenin						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.	

Atropine					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich		Danger	Fatal if	Do not breathe	
- 37019			swallowed or if	dust. IF	
			inhaled.	INHALED:	
				Remove person	
				to fresh air and	
				keep	
				comfortable for	
				breathing.	
				Immediately call	
				a POISON	
				CENTER/	
				doctor.Store in a	
				well-ventilated	
				place. Keep	
				container tightly	
				closed. Wash	
				skin thoroughly	
				after handling.	
				Use only	
				outdoors or in a	
				well-ventilated	
				area. Wear	
				respiratory	
				protection.	

Boldine					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich		Warning	Harmful if	Avoid breathing	
- 67592			swallowed.	dust. IF	
			Causes skin	SWALLOWED:	
			irritation.	Call a POISON	
			Causes serious	CENTER/ doctor	

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eye irritation.	if you feel	
May cause	unwell. Wash	
respiratory	skin thoroughly	
irritation.	after handling.	
	IF ON SKIN:	
	Wash with	
	plenty of water.	
	Use only	
	outdoors or in a	
	well-ventilated	
	area. IF IN	
	EYES: Rinse	
	cautiously with	
	water for	
	several minutes.	
	Remove contact	
	lenses, if	
	present and	
	easy to do.	
	Continue	
	rinsing.	

a-Mangostin					_
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - M3824		Warning	Harmful if swallowed.	Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Dispose of contents/ container to an approved waste disposal plant. Do not eat, drink or smoke when using this product.	

Baicalin					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Cerilliant -		Warning	Harmful if	Wash skin	
PHY89322			swallowed.	thoroughly after	
				handling. IF	
				SWALLOWED:	
				Call a POISON	
				CENTER/ doctor	
				if you feel	
				unwell. Dispose	
				of contents/	
				container to an	

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approved waste disposal plant.
Do not eat,
drink or smoke
when using this
product.

Agnuside					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - SMB00189		Warning	Harmful if swallowed.	Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Dispose of contents/ container to an approved waste disposal plant. Do not eat, drink or smoke when using this product.	mormadon

Cinnamyl alcohol					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 108197		Warning	Harmful if swallowed. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.	Avoid breathing mist or vapors. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. Wear protective gloves.	

Allyl disulfide						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Aldrich -		Danger	Toxic if	Avoid breathing		
317691			swallowed.	mist or vapors.		
			Causes skin	IF SWALLOWED:		
			irritation.	Immediately call		

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Causes serious	a POISON	
eye irritation.	CENTER/ doctor.	
May cause	Wash skin	
respiratory	thoroughly after	
irritation.	handling. IF ON	
n ricacioni	SKIN: Wash	
	with plenty of	
	water. Use	
	only outdoors or	
	in a well-	
	ventilated area.	
	IF IN EYES:	
	Rinse cautiously	
	with water for	
	several minutes.	
	Remove contact	
	lenses, if	
	present and	
	easy to do.	
	Continue	
	rinsing.	

D-Carvone					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - W224928		Warning	May cause an allergic skin reaction.	Avoid breathing mist or vapors. IF ON SKIN: Wash with plenty of water. Contaminated work clothing should not be allowed out of the workplace. If skin irritation or rash occurs: Get medical advice/ attention. Wear protective gloves. Take off contaminated clothing and wash it before reuse.	

D-Camphor					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Danger	Flammable solid.	Keep away	
W223018			Causes skin	from heat, hot	
			irritation.	surfaces,	
			Causes serious	sparks, open	
			eye damage.	flames and	

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Harmful if	other ignition	
inhaled.	sources. No	
May cause	smoking. IF ON	
damage to	SKIN: Wash	
organs (Lungs)	with plenty of	
if inhaled.	water. Wear	
ii iiiiiaieu.		
	protective	
	gloves/	
	protective	
	clothing/ eye	
	protection/ face	
	protection. IF	
	INHALED:	
	Remove person	
	to fresh air and	
	keep	
	comfortable for	
	breathing. Call a	
	POISON	
	CENTER/ doctor	
	if you feel	
	unwell. IF IN	
	EYES: Rinse	
	cautiously with	
	water for	
	several minutes.	
	Remove contact	
	lenses, if	
	present and	
	easy to do.	
	Continue	
	rinsing. IF	
	exposed or	
	concerned: Call	
	a POISON	
	CENTER/ doctor.	

Eucalyptol					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Flammable	Keep away	
W246506			liquid and vapor.	from heat, hot	
			May cause an	surfaces,	
			allergic skin	sparks, open	
			reaction.	flames and	
				other ignition	
				sources. No	
				smoking. IF ON	
				SKIN (or hair):	
				Take off	
				immediately all	
				contaminated	
				clothing. Rinse	
				skin with water.	
				Keep container	

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	tightly closed.	
	Ground and	
	bond container	
	and receiving	
	equipment.	
	Use explosion-	
	proof electrical/	
	ventilating/	
	lighting/	
	equipment.	
	Wear protective	
	gloves/	
	protective	
	clothing/ eye	
	protection/ face	
	protection.	

2-Methoxycin	2-Methoxycinnamaldehyde						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Aldrich - W318101		Warning	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing dust. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.	Information		

Biochanin A	4				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -					No hazard
145637					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)

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		required.

Capsaicin	_	_			
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma - C190		Danger	Fatal if	Avoid breathing	
			swallowed.	dust. IF	
			Causes skin	SWALLOWED:	
			irritation.	Immediately call	
			May cause an	a POISON	
			allergic skin	CENTER/ doctor.	
			reaction.	Wash skin	
			Causes serious	thoroughly after	
			eye damage.	handling. IF ON	
			May cause	SKIN: Wash	
			allergy or	with plenty of	
			asthma	water. Wear	
			symptoms or	protective	
			breathing	gloves/ eye	
			difficulties if	protection/ face	
			inhaled.	protection. IF IN	
			May cause	EYES: Rinse	
			respiratory	cautiously with	
			irritation.	water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing.	

(-)-bilobalid	(-)-bilobalide From Ginkgo Biloba Leaves					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma - B9031					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.	

Chlorogenic a	Chlorogenic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma-Aldrich - 00500590					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.	

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(-)-Arctigeni	n				
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - SMB00075					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Corilagin	Corilagin					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Supelco - PHL80390					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.	

Camphene					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Danger	Flammable solid.	Keep away	
W222901			Causes serious	from heat, hot	
			eye irritation.	surfaces,	
			Very toxic to	sparks, open	
			aquatic life with	flames and	
			long lasting	other ignition	
			effects.	sources. No	
				smoking. IF IN	
				EYES: Rinse	
				cautiously with	
				water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. Ground	
				and bond	
				container and	
				receiving	
				equipment.	
				Use explosion-	
				proof electrical/	
				ventilating/	
				lighting/	
				equipment.	

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Wash skin thoroughly after
handling.
Avoid release to
the
environment.

Cyclohexanea	cetic acid				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Causes skin	Avoid breathing	
W234702			irritation.	dust. IF ON	
			Causes serious	SKIN: Wash	
			eye irritation.	with plenty of	
			May cause	water. Wash	
			respiratory	skin thoroughly	
			irritation.	after handling.	
				IF IN EYES:	
				Rinse cautiously	
				with water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do. Continue	
				rinsing. Use	
				only outdoors or	
			Λ	in a well-	
				ventilated area.	
	7			Wear protective	
				gloves/ eye	
				protection/ face	
				protection.	

Coumarin					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - C85557		Danger	Toxic if swallowed or in contact with skin. May cause an allergic skin reaction.	Avoid breathing dust. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/ doctor if you feel unwell. Contaminated	

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	work clothing
	should not be
	allowed out of
	the workplace.
	Wear protective
	gloves/
	protective
	clothing.

(R) - $(+)$ - β -Citr	onellol			_	_
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Causes skin	Avoid breathing	
303461			irritation.	mist or vapors.	
			Causes serious	IF ON SKIN:	
			eye irritation.	Wash with	
			May cause	plenty of water.	
			respiratory	Wash skin	
			irritation.	thoroughly after	
				handling. IF IN	
				EYES: Rinse	
				cautiously with	
				water for several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. Use	
	7			only outdoors or	
				in a well-	
				ventilated area.	
				Wear protective	
				gloves/ eye	
				protection/ face	
				protection.	

5-Decanoli	de				
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 298069					No hazard pictogram, no signal word, no hazard
					statement(s), no precautionary statement(s) required.

Curcumol					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Cerilliant -					No hazard
					pictogram, no

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PHY82299			signal word, no	
			hazard	
			statement(s), no	
			precautionary	
			statement(s)	
			required.	

Daidzein					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma - D7802		Warning	Causes skin irritation. Causes serious eye irritation.	Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and	
			ЛIK	easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.	

Delphinidin o	Delphinidin chloride				
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Cerilliant - PHY89625					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma - M1022		Danger	Fatal if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing dust. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Use only outdoors or in a well-ventilated area. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	

Cryptochloro	genic acid				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Cerilliant -					No hazard
PHY80393					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.

Curcumin					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -					No hazard
C1386					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.

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Daidzin					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Cerilliant -					No hazard
PHY89182					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.

γ-Terpinene					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Warning	Flammable	Do not handle	
T2134			liquid and vapor.	until all safety	
			Suspected of	precautions	
			damaging	have been read	
			fertility or the	and understood.	
			unborn child.	IF exposed or	
			Toxic to aquatic	concerned: Get	
			life with long	medical advice/	
			lasting effects.	attention. Keep	
				away from heat,	
				hot surfaces,	
				sparks, open flames and	
				other ignition	
				sources. No	
	7			smoking. Keep	
				container tightly	
				closed.	
				Ground and	
				bond container	
				and receiving	
				equipment.	
				Avoid release to	
				the	
				environment.	

Benzyl isoth	niocyanate				
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - W442800		Danger	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or	Avoid breathing mist or vapors. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Wash skin thoroughly after handling. IF ON SKIN: Wash with	

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	asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.	plenty of water. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
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Product	hyl-2,6-octadie		Hazard	Procautionary	Cupplemental
	Pictogram	Signal		Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Causes skin	Avoid breathing	
268909			irritation.	mist or vapors.	
			May cause an	IF ON SKIN:	
			allergic skin	Wash with	
			reaction.	plenty of water.	
			Causes serious	Wash skin	
			eye irritation.	thoroughly after	
				handling. IF IN	
				EYES: Rinse	
				cautiously with	
				water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing.	
				Contaminated	
				work clothing	
				should not be	
				allowed out of	
				the workplace.	
				Wear protective	
				gloves/ eye	
				protection/ face	
				protection.	

Eugenol					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
		Warning	May cause an allergic skin reaction. Causes serious	Avoid breathing mist or vapors. IF ON SKIN: Wash with	
			eye irritation.	plenty of water.	

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Wash skin
thoroughly after
handling. IF IN
EYES: Rinse
cautiously with
water for
several minutes.
Remove contact
lenses, if
present and
easy to do.
Continue
rinsing.
Contaminated
work clothing
should not be
allowed out of
the workplace.
Wear protective
gloves/ eye
protection/ face
protection.

Cupplemental
Supplemental
information
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Costunolide							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Cerilliant -		Warning	May cause an	Avoid breathing			
PHY89611			allergic skin	dust. IF ON			
			reaction.	SKIN: Wash			
				with plenty of			
				water.			
				Contaminated			
				work clothing			
				should not be			
				allowed out of			
				the workplace.			
				If skin irritation			
				or rash occurs:			
				Get medical			
				advice/			
				attention.			
				Wear protective			
				gloves. Take off			
				contaminated			
				clothing and			
				wash it before			
				reuse.			

trans,trans-F	trans, trans-Farnesyl acetate						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information		
Sigma - F2916			ЛК	AK	No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.		

Emodin	Emodin							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental			
identifier		Word	Statements	Statements	information			
Sigma -		Warning	Harmful if	Wash skin				
E7881			swallowed.	thoroughly after				
				handling. IF				
				SWALLOWED:				
				Call a POISON				
				CENTER/ doctor				
				if you feel				
				unwell. Dispose				
				of contents/				
				container to an				
				approved waste				
				disposal plant.				
				Do not eat,				
				drink or smoke				
				when using this				

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v-Glu-Phe					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					No hazard pictogram, no signal word, no

product.

hazard

statement(s), no precautionary statement(s) required.

Diosmetin					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Cerilliant - PHY82526					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Diosgenin							
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information		
Sigma - D1634					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.		

Ganoderic acid A						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Cerilliant - PHY89668					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.	

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