

SAFETY DATA SHEET

Version 8.28 Revision Date 03/22/2022 Print Date 10/01/2022

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

1.1 Product identifiers

Product name : Mass Spectrometry Metabolite Library of

Standards

Product Number : MSMLS Brand : Sigma

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

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

This is a summary MSDS for a kit. For the full MSDS 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

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225 Corrosive to Metals (Category 1), H290

Acute toxicity, Oral (Category 2), H300

Acute toxicity, Inhalation (Category 1), H330

Acute toxicity, Dermal (Category 1), H310

Skin corrosion (Category 1A), H314

Serious eye damage (Category 1), H318 Respiratory sensitization (Category 1), H334

Skin sensitization (Category 1), H317

Germ cell mutagenicity (Category 1B), H340

Carcinogenicity (Category 1A), H350

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Reproductive toxicity (Category 1A), H360

Effects on or via lactation, H362

Specific target organ toxicity - single exposure (Category 1), H370

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Specific target organ toxicity - repeated exposure (Category 1), H372

Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Respiratory system, H373

Aspiration hazard (Category 1), H304

Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

'	Pictogram	
	Signal word	Danger
	Hazard statement(s)	
	H225	Highly flammable liquid and vapor.
	H290	May be corrosive to metals.
	H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled.
	H304	May be fatal if swallowed and enters airways.
	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.
	H340	May cause genetic defects.
	H350	May cause cancer.
	H360	May damage fertility or the unborn child.
	H362	May cause harm to breast-fed children.
	H370	Causes damage to organs.
	H372	Causes damage to organs through prolonged or repeated exposure.
	H373	May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.
	H410	Very toxic to aquatic life with long lasting effects.
	Precautionary statement(s)	
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and
	P210	understood.
	P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
	P233	Keep container tightly closed.
	P234	Keep only in original container.
	P240	Ground/bond container and receiving equipment.
	P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
	P242	Use only non-sparking tools.
	P243	Take precautionary measures against static discharge.
	P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
	P262 P263	Do not get in eyes, on skin, or on clothing.
	P264	Avoid contact during pregnancy/ while nursing. Wash skin thoroughly after handling.
	Γ ∠ U '1	wash skin thoroughly after handling.





P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the
	workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P350 + P310	IF ON SKIN: Gently wash with plenty of soap and water.
	Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water/ shower.
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.
P310	Remove contact lenses, if present and easy to do. Continue
	rinsing. Immediately call a POISON CENTER/ doctor.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant
	foam to extinguish.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner
	liner.
P501	Dispose of contents/ container to an approved waste disposal
	plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Corrosive to the respiratory tract.

SECTION 3: Composition/information on ingredients

Refer to component MSDS

SECTION 4: First aid measures

Refer to component MSDS

SECTION 5: Firefighting measures

Refer to component MSDS

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SECTION 6: Accidental release measures

Refer to component MSDS

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. No metal containers. 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 stability

Recommended 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

SECTION 8: Exposure controls/personal protection

Refer to component MSDS

SECTION 9: Physical and chemical properties

Refer to component MSDS

SECTION 10: Stability and reactivity

Refer to component MSDS

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SECTION 11: Toxicological information

Refer to component MSDS

SECTION 12: Ecological information

Refer to component MSDS

SECTION 13: Disposal considerations

Refer to component MSDS

SECTION 14: Transport information

DOT (US)

UN number: 3316 Class: 9 Packing group: II

Proper shipping name: Chemical kit Reportable Quantity (RQ): 10 lbs Poison Inhalation Hazard: No

IMDG

UN number: 3316 Class: 9 Packing group: II EMS-No: F-A, S-P

Proper shipping name: CHEMICAL KIT

IATA

UN number: 3316 Class: 9 Packing group: II

Proper shipping name: Chemical kit

SECTION 15: Regulatory information

Refer to component MSDS

SECTION 16: Other information

Kit Components:

Mass Spectrometry Sigma MSMLS-01 Flam. Liq. 3; Acute Tox. 3; Acute Metabolite Library of Tox. 4; Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; Carc. 2; Repr.

1B; STOT SE 3; STOT RE 2; Aquatic Acute 2; Aquatic Chronic 2; H226, H301 + H311, H315, H318, H332, H335, H351, H360,

H373, H373, H411

Mass Spectrometry Sigma MSMLS-02 Flam. Liq. 3; Met. Corr. 1; Acute

Metabolite Library of
Standards (Plate 2)
Tox. 2; Acute Tox. 1; Acute Tox. 2; Skin Corr. 1A; Eye Dam. 1;
Resp. Sens. 1; Skin Sens. 1;
Muta. 2; STOT SE 1; STOT SE 3;
STOT RE 2: Aquatic Acute 1:

STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H226, H290,

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Mass Spectrometry Metabolite Library of Standards (Plate 3)	Sigma	MSMLS-03	H300 + H310 + H330, H314, H317, H334, H335, H341, H370, H373, H410 Flam. Liq. 2; Met. Corr. 1; Acute Tox. 3; Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; STOT SE 1; STOT SE 3; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H225, H290, H301 + H311, H314, H317, H330, H334, H335, H370, H373, H410
Mass Spectrometry Metabolite Library of Standards (Plate 4)	Sigma	MSMLS-04	Flam. Liq. 3; Acute Tox. 3; Acute Tox. 2; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 1B; Carc. 1B; Repr. 1B; STOT SE 1; STOT SE 3; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H226, H301, H310 + H330, H314, H317, H335, H340, H350, H360, H370, H372, H410
Mass Spectrometry Metabolite Library of Standards (Plate 5)	Sigma	MSMLS-05	Flam. Liq. 2; Acute Tox. 2; Skin Corr. 1A; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1B; Repr. 1A; STOT SE 3; STOT RE 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H225, H300 + H310 + H330, H314, H317, H335, H341, H350, H360, H372, H372, H373, H410
Mass Spectrometry Metabolite Library of Standards (Plate 6)	Sigma	MSMLS-06	Flam. Liq. 2; Met. Corr. 1; Acute Tox. 2; Acute Tox. 3; Acute Tox. 1; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 2; Repr. 2; STOT SE 3; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H225, H290, H300 + H310, H314, H317, H331, H335, H341, H351, H361, H373, H410
Mass Spectrometry Metabolite Library of Standards (Plate 7)	Sigma	MSMLS-07	Flam. Liq. 4; Acute Tox. 3; Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1A; Repr. 1A; Lact.; STOT SE 3; STOT RE 1; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H227, H301 + H311, H304, H314, H317, H330, H335, H341, H350, H360, H362, H372, H410

Further information

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Kit Components:

Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
		word	Statements	Statements	information
Product identifier Sigma - MSMLS-01	Pictogram	_	Statements Flammable liquid and vapor. Toxic if swallowed or in contact with skin. Causes skin irritation. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. May damage fertility or the	Obtain special instructions before use. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/ container to an approved waste disposal plant. Do not handle	Supplemental information

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		CENTER/ doctor	
		if you feel	
		unwell. Store	
		locked up.	
		Keep container	
		tightly closed. IF	
		IN EYES: Rinse	
		cautiously with	
		water for	
		several minutes.	
		Remove contact	
		lenses, if	
		present and	
		easy to do.	
		Continue	
		rinsing.	
		Immediately call	
		a POISON	
		CENTER/ doctor.	
		Ground/bond	
		container and	
		receiving	
		equipment. IF	
		exposed or	
		•	
		concerned: Get	
		medical advice/	
		attention. Use	
		explosion-proof	
		electrical/	
		ventilating/	
		lighting/	
		equipment. If	
		skin irritation	
		occurs: Get	
		medical advice/	
		attention. Use	
		only non-	
		sparking tools.	
		Take off	
		contaminated	
		clothing and	
		wash before	
		reuse. Take	
		precautionary	
		measures	
		against static	
		discharge. In	
		case of fire: Use	
		dry sand, dry	
		chemical or	
		alcohol-resistant	
		foam to	
		extinguish. Do	
		not breathe	
		dust/ fume/	
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gas/ mist/
vapors/ spray.
Collect spillage.
Wash skin
thoroughly after
handling. Do
not eat, drink or
smoke when
using this
product. Use
only outdoors or
in a well-
ventilated area.
Avoid release to
the
environment.
Wear protective
gloves/
protective
clothing/ eye
protection/ face
protection.

Mass Spectro	Mass Spectrometry Metabolite Library of Standards (Plate 2)						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		word	Statements	Statements	information		
Sigma -		Danger	Flammable	Obtain special			
MSMLS-02			liquid and vapor.	instructions			
			May be	before use. IF			
			corrosive to	SWALLOWED:			
			metals. Fatal if	Immediately call			
			swallowed, in	a POISON			
			contact with skin	CENTER/ doctor.			
	TE		or if inhaled.	Rinse mouth.			
			Causes severe	Store in a well-			
			skin burns and	ventilated place.			
	· ·		eye damage.	Keep container			
			May cause an	tightly closed.			
			allergic skin	Dispose of			
			reaction. May	contents/			
			cause allergy or	container to an			
			asthma	approved waste			
			symptoms or	disposal plant.			
			breathing	Do not handle			
			difficulties if	until all safety			
			inhaled. May	precautions			
			cause	have been read			
			respiratory	and understood.			
			irritation.	IF SWALLOWED:			
			Suspected of	Rinse mouth. Do			
			causing genetic	NOT induce			
			defects. Causes	vomiting. Store in a well-			
			damage to				
			organs. May	ventilated place.			
			cause damage	Keep cool.			

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	to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician. Store locked up. Keep container tightly closed. IF ON SKIN (or
Sigma - MSMLS		resistant inner liner. Keep only in original container. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. Ground/bond container and receiving equipment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call

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		a POISON	
		CENTER/ doctor.	
		Use explosion-	
		proof electrical/	
		ventilating/	
		lighting/	
		equipment. IF	
		exposed: Call a	
		POISON CENTER	
		or doctor/	
		physician. Use	
		only non-	
		sparking tools.	
		If skin irritation	
		or rash occurs:	
		Get medical	
		advice/	
		attention.	
		Take	
		precautionary	
		measures	
		against static	
		discharge. Take	
		off contaminated	
		clothing and	
		wash before	
		reuse. Do not	
		breathe dust/	
		fume/ gas/	
		mist/ vapors/	
		spray. In case of	
		fire: Use dry	
		sand, dry	
		chemical or	
		alcohol-resistant	
		foam to	
		extinguish. Do	
		not get in eyes,	
		on skin, or on	
		clothing. Absorb	
		_	
		spillage to	
		prevent material	
		damage.	
		Wash skin	
		thoroughly after	
		handling. Collect	
		spillage. Do	
		not eat, drink or	
		smoke when	
		using this	
		product. Use	
		only outdoors or	
		in a well-	
		ventilated area.	
		Contaminated	
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	work clothing	
	must not be	
	allowed out of	
	the workplace.	
	Avoid release to	
	the	
	environment.	
	Wear protective	
	gloves/	
	protective	
	clothing/ eye	
	protection/ face	
	protection.	
	Wear respiratory	,
	protection.	

Product	Pictogram	Signal	ry of Standards (Pl Hazard	Precautionary	Supplemental
identifier	1 1000 91 0111	word	Statements	Statements	information
Sigma -		Danger	Highly	Keep away	
MSMLS-03	<u>(4)</u>	2 411.941	flammable liquid	from heat/	
. 101 120 00	X		and vapor. May	sparks/ open	
			be corrosive to	flames/ hot	
			metals. Toxic if	surfaces. No	
			swallowed or in	smoking. IF	
	45		contact with	SWALLOWED:	
			skin. Causes	Immediately call	
			severe skin	a POISON	
			burns and eye	CENTER/ doctor.	
			damage. May	Rinse mouth.	
	~		cause an allergic	Store in a well-	
			skin reaction.	ventilated place.	
			Fatal if inhaled.	Keep container	
			May cause	tightly closed.	
			allergy or	Dispose of	
			asthma	contents/	
			symptoms or	container to an	
			breathing	approved waste	
			difficulties if	disposal plant.	
			inhaled. May	Keep container	
			cause	tightly closed. IF	
			respiratory	SWALLOWED:	
			irritation.	Rinse mouth. Do	
			Causes damage	NOT induce	
			to organs. May	vomiting. Store	
			cause damage	in a well-	
			to organs	ventilated place.	
			through	Keep cool.	
			prolonged or	Keep only in	
			repeated	original	
			exposure. Very	container. IF ON	
			toxic to aquatic	SKIN (or hair):	
			life with long	Take off	
			lasting effects.	immediately all	
				contaminated	

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		clothing. Rinse	
		skin with water/	
		shower. Store	
		locked up.	
		Ground/bond	
		container and	
		receiving	
		equipment. IF	
		INHALED:	
		Remove person	
		to fresh air and	
		keep	
		comfortable for	
		breathing.	
		Immediately call	
		a POISON	
		CENTER/ doctor.	
		Store in	
		corrosive	
		resistant	
		container with a	
		resistant inner	
		liner. Use	
		explosion-proof	
		electrical/	
		ventilating/	
		lighting/	
		equipment. IF	
		IN EYES: Rinse	
		cautiously with	
		water for	
		several minutes.	
		Remove contact	
		lenses, if	
		present and	
		easy to do.	
		Continue	
		rinsing.	
		Immediately call	
		a POISON	
		CENTER/ doctor.	
		Use only non-	
		sparking tools.	
		IF exposed: Call	
		a POISON	
		CENTER or	
		doctor/	
		physician.	
		Take	
		precautionary	
		measures	
		against static	
		discharge. If	
		skin irritation or	
		rash occurs: Get	
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medical advice/
attention. Do
not breathe
dust/ fume/
gas/ mist/
vapors/ spray.
Take off
contaminated
clothing and
wash before
skin thoroughly
after handling.
In case of fire:
Use dry sand,
dry chemical or
alcohol-resistant
foam to
extinguish. Do
not eat, drink or
smoke when
using this
product. Absorb
spillage to
prevent material
damage. Use
only outdoors or
in a well-
ventilated area.
Collect spillage.
Contaminated
work clothing
must not be
allowed out of
the workplace.
Avoid release to
the
environment.
Wear protective
gloves/
protective
clothing/ eye
protection/ face
protection.
Wear respiratory
protection.

Mass Spectrometry Metabolite Library of Standards (Plate 4)						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		word	Statements	Statements	information	
Sigma -		Danger	Flammable	Obtain special		
MSMLS-04	63		liquid and vapor.	instructions		
			Toxic if	before use. IF		
			swallowed. Fatal	SWALLOWED:		
			in contact with	Immediately call		

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skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

a POISON CENTER/ doctor. Rinse mouth. Store in a wellventilated place. Keep container tightly closed. Dispose of contents/ container to an approved waste disposal plant. Do not handle until all safety precautions have been read and understood. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Store in a wellventilated place. Keep cool. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician. Store locked up. Keep container tightly closed. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Ground/bond container and receiving equipment. IF INHALED: Remove person to fresh air and

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		1	
		keep	
		comfortable for	
		breathing.	
		Immediately call	
		a POISON	
		CENTER/ doctor.	
		Use explosion-	
		proof electrical/	
		ventilating/	
		lighting/	
		equipment. IF	
		IN EYES: Rinse	
		cautiously with	
		water for	
		several minutes.	
		Remove contact	
		lenses, if	
		present and	
		easy to do.	
		Continue	
		rinsing.	
		Immediately call	
		a POISON	
		CENTER/ doctor.	
		Use only non-	
		sparking tools.	
		IF exposed: Call	
		a POISON	
		CENTER or	
		doctor/	
		physician.	
		Take	
		precautionary	
		measures	
		against static	
		discharge. If	
		skin irritation or	
		rash occurs: Get	
		medical advice/	
		attention. Do	
		not breathe	
		dust/ fume/	
		gas/ mist/	
		vapors/ spray.	
		Take off	
		contaminated	
		clothing and	
		wash before	
		reuse. Do not	
		get in eyes, on	
		skin, or on	
		clothing. In case	
		of fire: Use dry	
		sand, dry	
		chemical or	
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alcohol-resistant
foam to
extinguish.
Wash skin
thoroughly after
handling. Collect
spillage. Do
not eat, drink or
smoke when
using this
product. Use
only outdoors or
in a well-
ventilated area.
Contaminated
work clothing
must not be
allowed out of
the workplace.
Avoid release to
the
environment.
Wear protective
gloves/
protective
clothing/ eye
protection/ face
protection.
Wear respiratory
protection.

Mass Spectro	metry Metab	olite Librar	y of Standards (Pl	ate 5)	
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		word	Statements	Statements	information
Sigma - MSMLS-05		Danger	Highly flammable liquid and vapor. Fatal if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer. May damage fertility or the	Obtain special instructions before use. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/ container to an approved waste disposal plant. Do not handle until all safety precautions have been read	

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unborn child. and understood. Causes damage IF SWALLOWED: to organs Rinse mouth. Do $(/\$/*_ORGAN_R$ NOT induce EPEAT/\$/) vomiting. Store through in a wellprolonged or ventilated place. repeated Keep cool. exposure. Keep away from Causes damage heat/ sparks/ to organs open flames/ (/\$/*_ORG_REP hot surfaces. No _INHA/\$/) smoking. IF ON through SKIN: Gently prolonged or wash with plenty repeated of soap and exposure if water. inhaled. May Immediately call cause damage a POISON to organs CENTER or doctor/ through prolonged or physician. Store repeated locked up. Keep container exposure. Very toxic to aquatic tightly closed. IF life with long ON SKIN (or lasting effects. hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Ground/bond container and receiving equipment. IF **INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. Use explosionproof electrical/ ventilating/ lighting/ equipment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

> Millipore SigMa

lenses, ir present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Use only nonsparking tools. IF exposed or concerned: Get medical advice/ attention. Take precautionary measures against static discharge. If skin irritation or rash occurs: Get medical advice/ attention. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Take off contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Wash skin thoroughly after handling. Collect spillage. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be			1: c	
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work clothing must not be				
Sigma - MSMLS				
Sigma - MSMLS			work clothing	
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	allowed out of	
	the workplace.	
	Avoid release to	
	the	
	environment.	
	Wear protective	
	gloves/	
	protective	
	clothing/ eye	
	protection/ face	
	protection.	
	•	
	Wear respiratory	
	protection.	

Mass Spectro	metry Metab	olite Librar	y of Standards (Pl	ate 6)	
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		word	Statements	Statements	information
Sigma -	&	Danger	Highly	Obtain special	
MSMLS-06	<u>**3</u>		flammable liquid	instructions	
			and vapor. May	before use. IF	
			be corrosive to	SWALLOWED:	
	X		metals. Fatal if	Immediately call	
			swallowed or in	a POISON	
			contact with	CENTER/ doctor.	
	V.		skin. Causes	Rinse mouth.	
			severe skin	Store in a well-	
			burns and eye	ventilated place.	
			damage. May	Keep container	
	Ť		cause an allergic	tightly closed.	
			skin reaction.	Dispose of	
			Toxic if inhaled.	contents/	
			May cause	container to an	
			respiratory	approved waste	
			irritation.	disposal plant.	
			Suspected of	Do not handle	
			causing genetic	until all safety	
			defects.	precautions	
			Suspected of	have been read	
			causing cancer.	and understood.	
			Suspected of	IF SWALLOWED:	
			damaging	Rinse mouth. Do	
			fertility or the	NOT induce	
			unborn child.	vomiting. Store	
			May cause	in a well-	
			damage to	ventilated place.	
			organs	Keep cool.	
			(/\$/*_2ORG_RE	Keep away from	
			P_INH/\$/)	heat/ sparks/	
			through	open flames/	
			prolonged or	hot surfaces. No	
			repeated	smoking. IF ON	
			exposure if	SKIN: Gently	
			inhaled. Very	wash with plenty	
			toxic to aquatic	of soap and	
			life with long	water.	

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		lasting effects.	Immediately call	
		iasting enects.	a POISON	
			CENTER or	
			doctor/	
			physician. Store	
			locked up.	
			Keep container	
			tightly closed. IF	
			ON SKIN (or	
			hair): Take off	
			immediately all	
			contaminated	
			clothing. Rinse	
			skin with water/	
			shower. Store in	
			corrosive	
			resistant	
			container with a	
			resistant inner	
			liner. Keep	
			only in original	
			container. IF	
			INHALED:	
			Remove person	
			to fresh air and	
			keep	
			comfortable for	
			breathing.	
			Immediately call	
			a POISON	
			CENTER/ doctor.	
			Ground/bond	
			container and	
			receiving	
			equipment. IF	
			IN EYES: Rinse	
			cautiously with	
			water for	
			several minutes.	
			Remove contact	
			lenses, if	
			present and	
			easy to do.	
			Continue	
			rinsing.	
			Immediately call	
			a POISON	
			CENTER/ doctor.	
			Use explosion-	
			proof electrical/	
			ventilating/	
			lighting/	
			equipment. IF	
			exposed or	
			concerned: Get	
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attention. Use only non-sparking tools. If skin irritation or rash occurs: Get medical advice/ attention. Take precautionary measures against static discharge. Take off contaminated clothing and wash before reuse. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Do not get in eyes, on skin, or on clothing. Absorb spillage to prevent material damage. Wash skin thoroughly after handling. Collect spillage. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/			medical advice/	
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		protective clothing/ eye protection/ face	
		protection.	

Mass Spectre	ometry Metab	olite Libra	ry of Standards (Pl	ate 7)	
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		word	Statements	Statements	information
Sigma -		Danger	Combustible	Obtain special	
MSMLS-07	335		liquid. Toxic if	instructions	
			swallowed or in	before use. IF	
			contact with	SWALLOWED:	
	X		skin. May be	Immediately call	
	(T.S.)		fatal if	a POISON	
	X		swallowed and	CENTER/ doctor.	
			enters airways.	Rinse mouth.	
			Causes severe	Store in a well-	
	*		skin burns and	ventilated place.	
			eye damage.	Keep container	
			May cause an	tightly closed.	
			allergic skin	Dispose of	
			reaction. Fatal if	contents/	
			inhaled. May	container to an	
			cause	approved waste	
			respiratory	disposal plant.	
			irritation.	Do not handle	
			Suspected of	until all safety	
			causing genetic	precautions	
			defects. May	have been read	
			cause cancer.	and understood.	
			May damage	IF SWALLOWED: Rinse mouth. Do	
			fertility or the unborn child.	NOT induce	
			May cause harm	vomiting. Store	
			to breast-fed	in a well-	
			children. Causes	ventilated place.	
			damage to	Keep cool.	
			organs through	Keep away from	
			prolonged or	heat/ sparks/	
			repeated	open flames/	
			exposure if	hot surfaces. No	
			swallowed. Very	smoking. IF ON	
			toxic to aquatic	SKIN (or hair):	
			life with long	Take off	
			lasting effects.	immediately all	
			lasting chectsi	contaminated	
				clothing. Rinse	
				skin with water/	
				shower. Store	
				locked up. Do	
				not breathe	
				dust/ fume/	
				gas/ mist/	
				vapors/ spray.	
				IF INHALED:	

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		_	
		Remove person	
		to fresh air and	
		keep	
		comfortable for	
		breathing.	
		Immediately call	
		a POISON	
		CENTER/ doctor.	
		Avoid contact	
		during _.	
		pregnancy/	
		while nursing. IF	
		IN EYES: Rinse	
		cautiously with	
		water for	
		several minutes.	
		Remove contact	
		lenses, if	
		present and	
		easy to do.	
		Continue	
		rinsing.	
		Immediately call	
		a POISON	
		CENTER/ doctor.	
		Wash skin	
		thoroughly after	
		handling. IF	
		exposed or	
		concerned: Get	
		medical advice/	
		attention. Do	
		not eat, drink or	
		smoke when	
		using this	
		product. If skin	
		irritation or rash	
		occurs: Get	
		medical advice/	
		attention. Use	
		only outdoors or	
		in a well-	
		ventilated area.	
		Take off	
		contaminated	
		clothing and	
		wash before	
		reuse.	
		Contaminated	
		work clothing	
		must not be	
		allowed out of	
		the workplace.	
		In case of fire:	
		Use dry sand,	
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dry chemical or alcohol-resistant
foam to
extinguish.
Avoid release to
the
environment.
Collect spillage.
Wear protective
gloves/
protective
clothing/ eye
protection/ face
protection.
Wear respiratory
protection.

