

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.10 Revision Date 25.12.2023 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 : iTRAQ® Reagents Multiplex Kit

Product Number : 4352135 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

Uses advised against : For R&D use only. Not for pharmaceutical, household or other

uses.

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 2) H225: Highly flammable liquid and vapor.

Acute toxicity, (Category 4) H302: Harmful if swallowed.

Acute toxicity, (Category 4) H332: Harmful if inhaled.

Sigma- 4352135 Page 1 of 14

Acute toxicity, (Category 4) H312: Harmful in contact with skin.

Skin irritation, (Category 2) H315: Causes skin irritation.

Eye irritation, (Category 2) H319: Causes serious eye irritation.

Specific target organ toxicity single exposure, (Category 3),

Central nervous system

H336: May cause drowsiness or dizziness.

#### **Label elements** 2.2

#### Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word Danger **Hazard Statements** H225 Highly flammable liquid and vapor. H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. May cause drowsiness or dizziness. H336 **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 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

unwell.

IF ON SKIN (or hair): Take off immediately all contaminated P303 + P361 + P353

clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable P304 + P340 + P312

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

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 none **Precautionary Statements** none Supplemental Hazard none

Sigma- 4352135 Page 2 of 14

#### Statements

#### 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:

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. Store in cool place.

Sigma- 4352135 Page 3 of 14

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

**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 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

Sigma- 4352135 Page 4 of 14

#### 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

#### **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

<b>SECTION 16: Other informati</b>	on		
Kit Components:			
ITRAQ (R)-115 REAGENT	Sigma	4352153	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; H225, H302 + H312 + H332, H319
CYSTEINE BLOCKING REAGENT	Sigma	4352159	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336
ITRAQ (R)-114 REAGENT	Sigma	4352137	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; H225, H302 + H312 + H332, H319
ITRAQ (R)-116 REAGENT	Sigma	4352154	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; H225, H302 + H312 + H332, H319
ITRAQ (R)-117 REAGENT	Sigma	4352155	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; H225, H302 + H312 + H332, H319
DENATURANT (2% SDS)	Sigma	4352158	,
ETHANOL	Sigma	4352156	Flam. Liq. 2; Eye Irrit. 2; H225, H319
ITRAQ (R) DISSOLUTION BUFFER	Sigma	4352136	
REDUCING REAGENT, PKG'ED	Sigma	4326685	Skin Irrit. 2; Eye Irrit. 2; H315, H319

Sigma- 4352135 Page 5 of 14

#### 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 t	:he mixture	Classification procedure:
Flam. Liq.2	H225	Based on product data or assessment
Acute Tox.4	H302	Calculation method
Acute Tox.4	H332	Calculation method
Acute Tox.4	H312	Calculation method
Skin Irrit.2	H315	Calculation method
Eye Irrit.2	H319	Calculation method
STOT SE3	H336	Calculation method

Sigma- 4352135 Page 6 of 14

#### **Further information**

Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be shall not be held liable for any damage resulting from handling or from c for additional terms and conditions of sale.

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.

Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.



Sigma- 4352135 Page 7 of 14

# **Kit Components:**

	Pictogram	Signal	Hazard	Precautionary	
Product identifier Sigma - 4352153	Pictogram	Signal Word Danger	Hazard Statements  Highly flammable liquid and vapor. Harmful if swallowed, in contact with skin or if inhaled. Causes serious eye irritation.	Precautionary Statements  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Wear protective gloves/ protective clothing/ eye protection/ face protection. 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. Call a POISON CENTER/ doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for	Supplemental information

Sigma- 4352135 Page 8 of 14

lenses, if
present and
easy to do.
Continue
rinsing.

CYSTEINE BLO	CKING REA	GENT			
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Danger	Highly	Keep away	
4352159			flammable liquid	from heat, hot	
			and vapor.	surfaces,	
			Causes serious	sparks, open	
			eye irritation.	flames and	
			May cause	other ignition	
			drowsiness or	sources. No	
			dizziness.	smoking. IF IN	
				EYES: Rinse	
				cautiously with	
				water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. Keep	
				container tightly	
				closed.	
				_	
				<u> </u>	
				Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools.	

ITRAQ (R)-114 REAGENT						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma -		Danger	Highly	Keep away		
4352137			flammable liquid	from heat, hot		
			and vapor.	surfaces,		
			Harmful if	sparks, open		
			swallowed, in	flames and		
			contact with skin	other ignition		
			or if inhaled.	sources. No		

Sigma- 4352135 Page 9 of 14

	Causes serious eye irritation.	smoking. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel	
		unwell. Wear protective gloves/ protective clothing/ eye protection/ face	
		protection. 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. Call a POISON CENTER/ doctor if you feel	
CHEI	MK	unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
		lenses, if present and easy to do. Continue rinsing.	

ITRAQ (R)-116 REAGENT						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma -		Danger	Highly	Keep away		
4352154			flammable liquid	from heat, hot		
			and vapor.	surfaces,		
			Harmful if	sparks, open		
			swallowed, in	flames and		
			contact with skin	other ignition		
			or if inhaled.	sources. No		
			Causes serious	smoking. IF		
			eye irritation.	SWALLOWED:		

Sigma- 4352135 Page 10 of 14

Call a POISON	
CENTER/ doctor	
if you feel	
unwell. Wear	
protective	
gloves/	
protective	
clothing/ eye	
protection/ face	
protection. 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. 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.	
i ilising.	

ITRAQ (R)-117 REAGENT						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma -		Danger	Highly	Keep away		
4352155			flammable liquid	from heat, hot		
			and vapor.	surfaces,		
			Harmful if	sparks, open		
			swallowed, in	flames and		
			contact with skin	other ignition		
			or if inhaled.	sources. No		
			Causes serious	smoking. IF		
			eye irritation.	SWALLOWED:		
				Call a POISON		
				CENTER/ doctor		

Sigma- 4352135 Page 11 of 14

!£ £ 1	I
if you feel	
unwell. Wear	
protective	
gloves/	
protective	
clothing/ eye	
protection/ face	
protection. 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. 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.	

DENATURAN	T (2% SDS)				
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - 4352158					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Sigma- 4352135 Page 12 of 14

ETHANOL					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Danger	Highly	Keep away	
4352156			flammable liquid	from heat, hot	
			and vapor.	surfaces,	
			Causes serious	sparks, open	
			eye irritation.	flames and	
			,	other ignition	
				sources. No	
				smoking. IF IN	
				EYES: Rinse	
				cautiously with	
				water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. Keep	
				container tightly	
				closed.	
				Ground and	
				bond container	
				and receiving	
				equipment.	
				Use explosion-	
				proof electrical/	
				ventilating/	
				lighting/	
				equipment.	
				Use non-	
				sparking tools.	

ITRAQ (R) DISSOLUTION BUFFER							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma - 4352136					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s)		
					required		

Sigma- 4352135 Page 13 of 14

REDUCING REAGENT, PKG'ED						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma -		Warning	Causes skin	Wash skin		
4326685			irritation.	thoroughly after		
			Causes serious	handling. IF ON		
			eye irritation.	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. If		
				eye irritation		
				persists: Get		
				medical advice/		
				attention.		

Sigma- 4352135 Page 14 of 14