DiaSorin Inc.	SAFETY DATA SHEET	MSDS NO: UAZID0 ISSUED: 2021-11-05 SUPERCEDES: 2020-06-01

PRODUCTS CONTAINING SODIUM AZIDE (C < 0.10%)

SECTION 1 – IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Please Note: Kits may contain several different components for which there may be additional hazards. When applicable, additional safety sheets with those specific hazards have been included.

1.1 PRODUCT IDENTIFIER: Product components containing Sodium azide (C < 0.10%).

KIT #	PRODUCT	COMPONENT #
84400	CALIBRATOR 1	NA
85170	SPQ HUMAN SERUM LOW CONTROL	NA
85172	SPQ HUMAN SERUM HIGH CONTROL	NA
85187	MICROALBUMIN SPQ II CONTROL	85187U
86040	IGM SPQ II REAGENT SET	86076 / 86100
86041	C3 SPQ II REAGENT SET	86077 / 86100
86042	C4 SPQ II REAGENT SET	86078 / 86100
86043	AAT SPQ II REAGENT SET	86079 / 86100
86044	HAPTOGLOBIN SPQ II REAGENT SET	86081 / 86100
86045	TRANSFERRIN SPQ II REAGENT SET	86082 / 86100
86046	CRP SPQ REAGENT SET	86083
86047	IGG SPQ REAGENT SET	86074 / 86100
86048	IGA SPQ REAGENT SET	86075 / 86100
86059	APO A-1 SPQ II REAGENT AND DILUENTS	80303 / 85903 / 86002
86060	APO B SPQ II REAGENT AND DILUENTS	80304 / 85903 / 86001
86070	APO A-1 SPQ REAGENT AND CALIBRATION SETS	86059 / 86102
86071	APO B SPQ REAGENT AND CALIBRATION SETS	86060 / 86103
86072	MICROALBUMIN SPQ II REAGENT AND DILUENTS	80318 / 85906 / 85907
86073	PREALBUMIN SPQ II REAGENT AND DILUENT	80319 / 85901
86074	IGG SPQII REAGENT AND DILUENTS	80335 / 85901 / 85950
86075	IGA SPQ II REAGENT AND DILUENTS	80336 / 85901 / 85950
86076	IGM SPQ II REAGENT AND DILUENTS	80337 / 85901 / 85950
86077	C3 SPQ II REAGENT AND DILUENTS	80338 / 85901 / 85950
86078	C4 SPQ II REAGENT AND DILUENTS	80339 / 85901 / 85950
86079	AAT SPQ II REAGENT AND DILUENTS	80341 / 85901 / 85950
86081	HPT SPQ II REAGENT AND DILUENTS	80342 / 85901 / 85950
86082	TRF SPQ II REAGENT AND DILUENTS	80343 / 85901 / 85950
86083	CRP SPQ REAGENT SET AND DILUENTS	80344 / 85900 / 85907
86084	LP (A) SPQ II DILUENT AND REAGENT	23817 / 82950
86086	FIB SPQ II DILUENTS AND REAGENT	85903 / 88409 / 88419
86094	MICROALBUMIN SPQ REAGENT AND CALIBRATION SETS	86072 / 86106
86095	PREALBUMIN SPQ REAGENT AND CALIBRATION SET	86073 / 86107
86100	SPQ II CALIBRATORS 1 – 5 AND CONTROL	85150 – 85154 / 85171
86102	APO A-1 SPQ II CALIBRATORS 1 - 5 AND CONTROL	85010 – 85014 / 85024
86103	APO B SPQ II CALIBRATORS 1 – 5 AND CONTROL	85015 – 85019 / 85025
86106	MICROALBUMIN SPQ II CALIBRATORS 1 – 6 AND CONTROL	85181 – 85187
86107	PREALBUMIN SPQ CALIBRATORS 1 – 5 AND CONTROL	85188 – 85193
86108	CRP SPQ STANDARDS 1 – 5 AND CONTROL	85326 – 85331
86111	LP (A) SPQ REAGENT AND CALIBRATION SETS	86084 – 86114
86113	FIB SPQ REAGENT AND CALIBRATION SETS	86086 / 86116
86114	LP (A) SPQ CALIBRATORS 1 - 5 AND CONTROLS 1 -2	23818 – 23824
86116	FIB SPQ II CALIBRATOR AND CONTROL	88410 / 88411
88530	SPQ LP(A) IGG	NA
88589	PREALBUMIN CONTROL	NA
88590	MICROALBUMIN CONTROL	NA
88593	CRP II CONTROL	NA
267500	LIAISON® XL ZIKA CAPTURE IGM II ZIKV-C PMP	25960

PRODUCTS CONTAINING SODIUM AZIDE (C < 0.10%)

KIT #	PRODUCT	COMPONENT #
267510	LIAISON® XL ZIKA CAPTURE IGM II ZIKV-M PMP	25950
270410	LIAISON® MeMed BV™ IP-10 PMP	27060
270420	LIAISON® MeMed BV™ CRP PMP	27070
310410	LIAISON® TESTOSTERONE CONJUGATE AND ASSAY BUFFER	24738 / 24928
310420	LIAISON® PROGESTERONE PMP AND CONJUGATE	24790 / 24791
310450	LIAISON® ALDOSTERONE PMP	25410
310452	LIAISON® ALDOSTERONE NEUTRALIZATION BUFFER	25414
310502	LIAISON® EBV IGM SERUM NEGATIVE AND POSITIVE CONTROLS	25819 / 25820
310512	LIAISON® VCA IGG SERUM NEGATIVE AND POSITIVE CONTROLS	25817 / 25818
310522	LIAISON® EBNA IGG SERUM NEGATIVE AND POSITIVE CONTROLS	25821 / 25822
310542	LIAISON® EA IGG SERUM NEGATIVE AND POSITIVE CONTROLS	25827 / 25828
310600	LIAISON® ANTI-25 VITAMIN D PMP AND CALIBRATORS 1 – 2	25340 / 25242 / 25243
310601	LIAISON® 25 OH VITAMIN D TOTAL CONTROLS 1 – 2	25017 / 25018
310603	LIAISON® 25 OH VITAMIN D CALIBRATION VERIFIERS A – D	25113 / 25114 / 25115 / 25116
310620	LIAISON® HSV 2 PMP	25060
310630	LIAISON® 1-84 PTH CALIBRATORS 1 – 2	25192 / 25193
310650	LIAISON® CALCITONIN II-GEN CONJUGATE AND ASSAY BUFFER	25152 / 25157
310660	LIAISON® N-TACT PTH II CALIBRATORS 1 – 2	25222 / 25223
310670	LIAISON® 25 TOTAL-D CALIBRATORS 1 – 2	25171 / 25173 / 25174
310671	LIAISON® 25 TOTAL-D CONTROLS 1 – 2	25245 / 25246
310673	LIAISON® 25 TOTAL-D VERIFERS A – D	25248 / 25249 / 25250 / 25251
310680	LIAISON® ESTRADIOL II GEN PMP	25360
310690	LIAISON® PROGESTERONE II GEN PMP, CONJUGATE AND BUFFER	25370 / 25371 / 25395
310691	LIAISON® PROGESTERONE II GEN CONTROLS 1 – 2	25375 - 25376
310742	LIAISON® CMV IGG SERUM NEGATIVE AND POSITIVE CONTROLS	25823 / 25824
310752	LIAISON® CMV IGM SERUM NEGATIVE AND POSITIVE CONTROLS	25825 / 25826
310830	LIAISON® HSV 1 PMP	25050
310870	LIAISON® BORRELIA PMP	24932 / 26578
310910	LIAISON® N-TACT PTH PMP AND CONJUGATE	24591 / 24595
310912	LIAISON® N-TACT PTH SPECIMEN DILUENT	25145
310930	LIAISON® SCLEROSTIN PMP AND CALIBRATORS 1 - 2	25740 / 25742 / 25743
310931	LIAISON® SCLEROSTIN CONTROLS 1-2	25745 / 25746
310932	LIAISON® SCLEROSTIN SPECIMEN DILUENT	25747
310933	LIAISON® SCLEROSTIN CALIBRATION VERIFIERS A-D	25748 – 25751
310950	LIAISON® OSTEOCALCIN CONJUGATE AND ASSAY BUFFER	25601 / 25604
310960	LIAISON® TK PMP, CONJUGATE AND CALIBRATORS 1 – 2	25000 – 25003
310961	LIAISON® TK CONTROLS 1 – 2	25004 / 25005
310962	LIAISON® TK SPECIMENT DILUENT	25008
310970	LIAISON® BAP PMP	25840
310980 / 310985	LIAISON® XL 1,25 DIHYDROXYVITAMIN D PMP, RECON BUFFER, AND TCEP	25620 / 25656 – 25657
310984	LIAISON® XL 1,25 DIHYDROXYVITAMIN D CONTROL 1	26037
311020	LIAISON® QUANTIFERON®-TB GOLD PLUS PMP	26850
311510	LIAISON® SARS-CoV-2 TRIMERICS IgG PMP	26980
317130	LIAISON® XL ZIKA CAPTURE IGM REAGENT INTEGRALS, AND CALIBRATORS 1-2	25962 – 25963 / 317060 / 317090
317131	LIAISON® XL ZIKA CAPTURE IGM CONTROLS	25956 – 25957 / 25966 – 25967
317140	LIAISON® T-UPTAKE CALIBRATOR 1 – 2	26652 - 26653
317141	LIAISON® T-UPTAKE CONTROLS	26655 - 26656

KIT #	PRODUCT	COMPONENT #
317143	LIAISON® T-UPTAKE VERIFIERS	26657 - 26659
317150	LIAISON® XL ZIKA CAPTURE IGM II REAGENT INTEGRALS, AND CALIBRATORS 1-2	26753 – 26754 / 26759 – 26760 / 267500 / 267510
317151	LIAISON® XL ZIKA CAPTURE IGM II NEGATIVE AND POSITIVE CONTROLS	26755 - 26758
317912	LIAISON® N-TACT® PTH GEN II SPECIMEN DILUENTS	25537
318060	LIAISON® ADENOVIRUS AG ASSAY BUFFER	26520 / 26524
318310	LIAISON® FOLATE PMP, CONJUGATE, CALIBRATORS 1 - 2, ASSAY BUFFERS 1 - 3 AND SPECIMEN DILUENT	26610 – 26616 / 26619
318311	LIAISON® FOLATE CONTROLS 1 - 2	26617 / 26618
318313	LIAISON® FOLATE CALIBRATION VERIFIERS A - C	26620 - 26622
318320	LIAISON® B12 PMP, CONJUGATE, CALIBRATORS 1 – 2 AND ASSAY BUFFERS 1 - 2	26680 - 26685
318321	LIAISON® B12 CONTROLS 1 – 2	26687 / 26688
318322	LIAISON® B12 SPECIMEN DILUENT	26689
318323	LIAISON® B12 CALIBRATION VERIFIERS A - C	26690 - 26692
318330	LIAISON® LYME TOTAL AB PLUS PMP	26770
318340	LIAISON® LYME IGM PMP	26810
318350	LIAISON® LYME IGG PMP	
318360	LIAISON®25 OH VITAMIN D TOTAL ASSAY 200 PMP AND CALIBRATORS 1 - 2	26870 / 26872 / 26873
318410	LIAISON® TESTOSTERONE XT CONJUGATE AND ASSAY BUFFER	25493 / 25494
318470	LIAISON® MeMed BV™	270410 / 270420
318870	LIAISON® ANDROSTENEDIONE PMP	25900
318980	LIAISON® H PYLORI IGG PMP, CALIBRATORS 1-2	25830 / 25832 / 25833
318981	LIAISON® H PYLORI IGG CONTROLS	25835 - 25836
319020	LIAISON® SHBG PMP AND ASSAY BUFFER	25980 / 25984
319100	LIAISON® WASH SYSTEM LIQUID	NA
319140	LIAISON® ELASTASE-1 ASSAY BUFFER	26714
319300	LIAISON® WASH/SYSTEM LIQUID	NA
319301	LIAISON® EASY WASH BUFFER	NA

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST: Kits contain laboratory chemicals for In Vitro diagnostic use only. Sodium azide is used as a preservative in the Section 1.1 products. See package insert for instructions. Do not use products for purposes other than those designated. Improper use could result in uncalculated safety or exposure risks.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Manufacturer:

DiaSorin Inc.
1951 Northwestern Avenue
Stillwater, MN 55082 USA
Tel: 651-439-9710

Authorized Representative for EU:

DiaSorin S.p.A.
Via Crescentino s.n.c.
13040 SALUGGIA (VC) – ITALY
Tel.: 0039.0161.487526/947
Fax: 0039.0161.487670

Responsible Person:

E-mail: EHS@diasorin.com

1.4 EMERGENCY TELEPHONE NUMBER:

DiaSorin Inc: Tel: 651-439-9710 (8:00a.m. – 4:30p.m. CST)

Canadian Poison Control Centers:

Alberta
Poison and Drug Information Services (PADIS)
Calgary, AB
1-800-332-1414 (within Alberta)
(403) 944-1414 (in Calgary, VOIP users, or outside of Alberta)

British Columbia
BC Drug and Poison Information Centre (DPIC)
Vancouver, BC
1-800-567-8911 (within British Columbia)
(604) 682-5050 (Greater Vancouver or outside British Columbia)
Fax: (604) 806-8262

Manitoba
Manitoba Poison Control Centre
Winnipeg, Manitoba
911 (Manitoba residents outside Winnipeg)
(204) 787-2591 (Winnipeg or outside Manitoba)

New Brunswick
Clinidata division of Sykes Assistance Services Corporation - Poison Information Centre
Moncton, NB
911 (within New Brunswick)

Newfoundland
Poison Information Centre
St. John's, NL
(709) 772-1110

Northwest Territories
Poison and Drug Information Services (PADIS)
Calgary, AB
1-800-332-1414
1 (403) 944-1414 (VOIP users)

Nova Scotia
IWK Regional Poison Centre
Halifax, NS
1-800-565-8161 (within Nova Scotia)
(902) 470-8161 (Halifax or outside Nova Scotia)
Fax: (902) 470-7213 or 1-800-567-1999

Nunavut
Baffin Regional Hospital
Iqaluit, NU
(867) 979-7350

Cambridge Bay (Ikaluktutiak) Health Centre
(867) 983-2531

Rankin Inlet (Kangiqliniq) Health Centre
(867) 645-2816

Ontario
Ontario Poison Centre (OPC) / Centre anti-poison de l'Ontario
Toronto, ON
1-800-268-9017 (within Ontario)
(416) 813-5900 (Toronto or outside Ontario)

Prince Edward Island	IWK Regional Poison Centre Halifax, NS 1-800-565-8161 (within Prince Edward Island) (902) 470-8161 (outside Prince Edward Island)
Quebec	Centre anti-poison du Quebec (CAPQ) Quebec, QC 1-800-463-5060 (sans frais: Province de Quebec) (418) 656-8090
Saskatchewan	Poison and Drug Information Services (PADIS) Calgary, AB 1-866-454-1212 (within Saskatchewan)
Yukon Territory	Emergency Department - Whitehorse General Hospital Whitehorse, YT (867) 393-8700

SECTION 2 – HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: None required.

2.2 LABEL ELEMENTS:

SIGNAL WORD:	None required
PICTOGRAMS:	None required
HAZARD STATEMENTS:	None required
PRECAUTIONARY STATEMENTS:	None required

2.3 OTHER HAZARDS: After completion of the assay testing, the waste materials are commonly discharged into a laboratory sink drain. Over time the azide salt may react with the copper, lead or brass piping to form an accumulation of explosive metal azides. To minimize the build up of azide salts, thoroughly flush drains with large volumes of water several times a day. Prior to discharging any liquid wastes to the sewer, ensure compliance requirements with local sanitary sewer authorities and the regulations in force. Ensure maintenance personnel are informed of potential azide hazards prior to conducting any plumbing work. For further information refer to the Manual Guide – Safety Management No. CDC-22, "Decontamination of Laboratory Sink Drains to Remove Azide Salts," issued by the Centers for Disease Control, Atlanta, Georgia, April 30, 1976.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES: NA

3.2 MIXTURES: Product components listed in Section 1.1 contain the following ingredients at the following concentration:

NAME OF MATERIAL	CAS NO.	EC NUMBER	CONC.	CLASSIFICATION EC No. 1272/2008 (Pure Substance)
Sodium azide	26628-22-8	247-852-1	C < 0.10%	Acute Tox. 2 – H300: Fatal if swallowed. Aquatic Acute 1 – H400: Very toxic to aquatic life. Aquatic Chronic 1 – H410: Very toxic to aquatic life with long lasting effects. EUH032: Contact with acids liberates very toxic gas.

SECTION 4 – FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EXPOSURE ROUTE	FIRST AID MEASURES
SKIN CONTACT:	IF ON SKIN: Immediately remove any contaminated clothing and wash affected area with plenty of water for at least 15 minutes. Get medical attention immediately. Wash clothing and shoes thoroughly before reuse (P363).
EYE CONTACT:	IF IN EYES: Immediately wash eyes thoroughly with copious amounts of water for at least 15 minutes. While flushing, lift lower and upper eyelids occasionally, and look around to get a good flushing. Remove contact lenses if present and easy to do. Get medical attention immediately.
INHALATION:	IF INHALED: Move victim to fresh air and keep at rest in a position comfortable for breathing. Treat symptomatically. If breathing is labored or with coughing, give 100% supplemental oxygen. Do not give mouth-to-mouth resuscitation if the victim ingested or inhaled the material. Keep the affected person warm and at rest. Get medical attention as soon as possible.
INGESTION:	IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell (P301+P312). Rinse mouth (P330). Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Symptoms for Inhalation Exposure: Inhalation may cause irritation of eyes, nose, throat and respiratory system. Symptoms are similar to ingestion. Symptoms include cough, headache, nasal stuffiness, blurred vision, dizziness, shortness of breath, slowing heart beat, fall in blood pressure, and unconsciousness.

Symptoms of Skin Contact: May cause irritation characterized by itching, scaling, reddening or occasional blistering. May be absorbed through the skin.

Symptoms of Eye Contact: May cause irritation with redness, watering, itching and pain.

Symptoms after Ingestion: Toxic. May cause irritation of mucous membranes of the mouth, throat and esophagus, breathlessness, pulmonary edema and rapid heartbeats within 5 minutes. Nausea, vomiting, severe headache, restlessness and diarrhea may occur within 15 minutes. Other symptoms may include abdominal pain, sweating, low blood pressure, abnormal breathing, reduced body temperature, reduced body pH, convulsions, collapse, coma and death. Azide can significantly affect the blood's ability to transport oxygen throughout the body, which can result in potentially dangerous low blood pressure, throbbing headaches and rapid heartbeats.

Chronic Exposure: Repeated exposure to highly toxic may produce general deterioration of health by an accumulation in one or more human organs. Chronic exposure may lead to cardiovascular disorder, nervous system disorders, diarrhea, tiredness, kidney toxicity and liver damage.

Potential Medical Conditions Affected: Persons with pre-existing eye, skin or respiratory conditions may be more susceptible.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: NE

SECTION 5 – FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use dry chemical or powder, foam, or carbon dioxide.

Unsuitable Extinguishing Media: Do not use water.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: Hydrazoic acid fumes are a byproduct from sodium azide solutions and reaction with acids. Hydrazoic acid fumes are volatile, toxic and explosive. Contact with heavy metals will form explosive metal azides. Do not expose to friction, shocks or heat.

Hazardous Combustion Products: Nitrogen gas.

5.3 ADVICE FOR FIREFIGHTERS: May give off irritating or toxic gases in a fire. Wear full fire protection clothing, chemical resistant gloves and NIOSH-approved self-contained breathing apparatus (SCBA). Approach fire from upwind to avoid fumes. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water and fire remains according to applicable regulations. See Section 8 for additional information.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Evacuate personnel to a safe area. Isolate the hazard area and keep unnecessary personnel from entering. If outdoors, keep people upwind of the spill. Wear chemical resistant gloves, personal protective equipment for the eyes and face, impervious clothing, and NIOSH approved respirator or SCBA. Ventilate area. Avoid inhaling vapors or fumes, and prevent skin contact. Take precautionary measure against static discharges.

6.2 ENVIRONMENTAL PRECAUTIONS: Do not let the material enter drains, or contact surface water or ground water, and do not flush the spill to the sewer. CERCLA requires reporting of spills or releases to soil, water or air in excess of reportable quantity (see Section 15 for reportable quantity limits).

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Ventilate area. Remove all ignition sources. Beware of hydrazoic acid fume generation that could form an explosive situation. Isolate hazard area and keep unnecessary personnel from entering. Wear appropriate personal protective equipment as specified in Section 8. Use non-sparking tools and equipment. Contain the spill by surrounding with absorbent or inert material (e.g. vermiculite, dry sand). Do not use combustible materials such as saw dust for containing or absorbing the spill. Do not allow the spill to enter drains or flush to the sewer. If some does enter a drain, flush with copious amounts of water to avoid accumulation of explosive metal azide deposits. Carefully clean up spilled material and place into dry container for disposal. After collection, decontaminate area with water and dry with absorbent material. If spill contained biological reagents or materials used in the assay, consider as though potentially infectious and decontaminate with 10% bleach solution (containing 0.5% sodium hypochlorite) or equivalent disinfectant.

6.4 REFERENCE TO OTHER SECTIONS: See Section 8 for exposure control and personal protection information, and Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Protective Measures: Prevent generation of hydrazoic acid fumes. Avoid open flames and take precautionary measures against static discharges. Avoid splashing or forming an aerosol during assay. Keep away from drains.

Recommendations for Safe Use: Handle in accordance with good industrial hygiene practices. Do not eat, drink, smoke or apply cosmetics during the assay. Avoid contact with skin, eyes, mucous membranes or clothing. Avoid direct contact with potentially infectious material by wearing lab coats, protective eye/face wear and protective gloves. Do not inhale fumes. Avoid prolonged or repeated exposure. Do not pipette solutions by mouth. Wash hands thoroughly after performing the assay. Remove contaminated clothing and protective equipment prior to entering eating areas.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBLES: Store in original container. Keep container tightly closed. Store material at 2 – 8°C, in a well ventilated area and away from light. Do not freeze. Protect against physical damage. Store away from incompatibles (see Section 10 for incompatible materials). See package insert for further information.

7.3 SPECIFIC END USE(S): All samples, biological reagents and materials used in the diagnostic assay must be considered potentially able to transmit infectious agents. Follow universal precaution guidelines for handling infectious agents and good laboratory practices such as those established by the US Centers for Disease Control and the National Institutes of Health, or the World Health Organization.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

SODIUM AZIDE (CAS No. 26628-22-8)					
Country	Limit Value – 8 Hrs		Limit Value – Short Term		Legal Basis
	ppm	mg/m^3	Ppm	mg/m^3	
Austria	-	0.1	-	0.3	Ministry of the Economy and Labour (BMWA) – Austrian Governmental Journal Grenzwerte für Arbeitsstoffe und über krebserzeugende Arbeitsstoffe
Belgium	-	0.1	-	0.3	Ministry of Employment and Work – Liste de valeurs limites d'expositions professionnelle aux agents chimiques Annex 1
Canada	-	-	0.11	0.3	Occupational Health and Safety Commission – Règlement sur la santé et la sécurité du travail
Denmark	-	0.1	-	0.2	Limit Values for Substances and Materials
EU	-	0.1	-	0.3	Official Journal of the European Union – Directive 98/24/EC and 2004/37/EC
France	-	0.1	-	0.3	Order of 30 June 2004 and Decree No. 2006-133
Germany	-	0.20 Inhalable aerosol	-	0.4 Inhalable aerosol	Federal Institute for Occupational Safety and Health – Technical Rule for Hazardous Substances No. 900
Hungary	-	0.1	-	0.3	Hungarian Ordinance No. 25 / 2000
Ireland	-	0.1 Skin	-	0.3	Health and Welfare at Work Regulations 2001
Italy	-	0.1	-	0.3	Valori Limite di Esposizione Professionale
Japan	-	-	-	-	Japan Society for Occupational Health (JSOH) - Sangyo Eiseigaku Zasshi (Journal of Occupational Health)
Poland	-	0.1	-	0.3	Ministry of Labour and Social Policy Bureau for Chemical Substances and Preparations - Dziennik Ustaw
Singapore	-	-	-	-	NA
Spain	-	0.1	-	0.3	National Institute for Occupational Safety and Health (INSHT) – Límites de exposición professional para agentes químicos en España
Sweden	-	-	-	-	Swedish Work Environment Authority - Occupational Exposure Limit Values and Measures Against Air Contaminants
Switzerland	-	0.2 Inhalable aerosol	-	0.4 Inhalable aerosol	Swiss Accident Insurance Institute (SUVA) - Valeurs limites d'exposition aux postes de travail
The Netherlands	-	-	-	-	Deputy Minister for Social Affairs and Employment – Databank of the Social and Economic Council of the Netherlands (SER)
United Kingdom	-	0.1	-	0.3	Health and Safety Executive - Guidance Note EH40 Workplace Exposure Limits
United States	-	-	-	-	OSHA - 29 CFR 1910 PEL
	-	-	0.1 Hydrazoic acid fume	0.3 Sodium azide	ACGIH / NIOSH – Threshold Limit Values

8.2 EXPOSURE CONTROLS:

Personal protective equipment must comply with the rules in force.

Appropriate Engineering Controls: To maintain air concentrations below occupational exposure standards recommend use of local or general exhaust system. Local ventilation is adequate under normal use conditions. Assure an adequate ventilation system. Hand washing and chemical flushing equipment should be readily available in the work area.

Safe Practices: Follow good occupational hygiene practices in conjunction with the other control measures. Keep food and drinks away from work area. Wash hands thoroughly after handling. Immediately remove any contaminated clothing or personal protective equipment. Wash contaminated clothing and shoes before wearing again.

Personal Protection:

EYE/FACE:	Wear appropriate eye protection to prevent eye contact. Protect eyes with safety glasses or goggles based upon the hazards in the workplace and the potential exposure risks. Safety glasses and goggles should meet, at a minimum, the ANSI standard Z87.1 (US) / EN 166 (EU) or an equivalent level of protection.
SKIN - CLOTHING/GLOVES:	Prevent skin contact and protect clothing. Wear a lab coat and use chemical resistant gloves to prevent skin contact. With normal use of products for diagnostic purposes, disposable nitrile gloves or equivalent protection is adequate. Handle materials in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling, and before eating or drinking. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. For EU, reference Directive 89/686/EEC, and Standards EN 344 and EN 374.
RESPIRATORY:	None required with normal use of products for diagnostics purposes and adequate ventilation conditions exist. The use of adequate ventilation must always take priority over PPE. If it is not possible to keep the concentration below the permitted workplace exposure thresholds, then respiratory protection must be used. For EU, reference Standards EN 138 and EN 141.
THERMAL HAZARDS:	NA

Environmental Exposure Controls: See Section 6.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

PROPERTY	DATA
APPEARANCE:	Clear, colorless liquid
ODOR:	Odorless
ODOR THRESHOLD:	NE
PH:	NE
MELTING POINT/RANGE:	NE
BOILING POINT/RANGE:	NE
FLASH POINT:	NE
EVAPORATION RATE(Bu Acetate = 1):	Negligible
FLAMMABILITY:	NE
UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS:	NE
VAPOR PRESSURE:	NE
VAPOR DENSITY (AIR = 1):	NE
RELATIVE DENSITY OR SPECIFIC GRAVITY (WATER = 1):	NE
SOLUBILITY IN WATER:	Soluble
PARTITION COEFFICIENT (N-OCTANOL/WATER):	NE
AUTO-IGNITION TEMPERATURE:	NE
DECOMPOSITION TEMPERATURE:	NE
VISCOSITY:	NE
EXPLOSIVE PROPERTIES:	NE
OXIDIZING PROPERTIES:	NE

9.2 OTHER INFORMATION: NA

SECTION 10 – STABILITY AND REACTIVITY

10.1 REACTIVITY: Stable.

10.2 CHEMICAL STABILITY: Stable under normal ambient and anticipated use and storage conditions of temperature and pressure.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: Risk of explosion in contact with chromyl chloride, heat, dichloromethane, halogenated hydrocarbon, sulfuric acid, heavy metals, bromine, copper, nitric acid and carbon disulfide. Reacts dangerously with potassium nitrate, barium carbonate, acids and water. Not expected to polymerize.

10.4 CONDITIONS TO AVOID: Heat, shock, and incompatibles. Do not mix with water as reaction forms toxic hydrazoic acid fumes. Do not mix with acids as reactions can form toxic and explosive hydrogen azide. Do not dispose waste down sink drains since it can react with copper or lead pipes to form highly explosive copper azide or lead azide.

10.5 INCOMPATIBLE MATERIALS: Acids, water, some metals (copper, lead, mercury, brass, solder in plumbing systems), oxidizing agents, benzoyl chloride, potassium hydroxide, bromine and carbon disulfide.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: Forms nitrogen oxide, sodium oxide and hydrazoic acid.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:	ROUTE	TEST / RESULT
	Oral	Rat LD50: 27 mg/kg
		Mouse LD50: 27 mg/kg
	Inhalation	Rat LC50: 37 mg/m^3
		Mouse LC50: 32.4 mg/m^3
	Dermal	Rat LD50: 50 mg/kg
		Rabbit LD50: 20 mg/kg

SKIN CORROSION / IRRITATION:	ROUTE – ORGANISM	DOSE	EFFECT
	Skin	No data available.	

SERIOUS EYE DAMAGE / IRRITATION:	ROUTE – ORGANISM	DOSE	EFFECT
	Eye	No data available.	

RESPIRATORY OR SKIN SENSITIZATION:	Does not cause sensitization on laboratory animals.
CARCINOGENICITY:	NTP: N IARC: N OSHA: N CA: N
MUTAGENICITY:	Mutagenic effects have occurred in experimental animals.
REPRODUCTIVE TOXICITY:	No data available.
STOT EXPOSURE:	No data available.
ASPIRATION HAZARD:	No data available.
IDLH:	NE

SECTION 12 – ECOLOGICAL INFORMATION

12.1 TOXICITY:

COMPONENT	TEST	RESULT
Rainbow trout	LC50, 96 hr	0.8 – 1.5 mg/L
Bluegill / Sunfish	LC50, 96 hr	0.7 – 0.8 mg/L

12.2 PERSISTENCE AND DEGRADABILITY: Photolysis of sodium azide may result in metal nitrides initially, with eventual formation of free metal and nitrogen gas.

12.3 BIOACCUMULATIVE POTENTIAL: Possible hazardous short and/or long term degradation products are to be expected.

12.4 MOBILITY IN SOIL: No data available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 OTHER ADVERSE EFFECTS: NA

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Processing, use or contamination of the components may change the waste management options. Do not reuse the empty container.

United States (US): Dispose of unused material, waste, empty container and packaging in accordance with all federal, state and local environmental regulations. **European Union (EU):** Reuse when possible. The hazard level of the waste should be evaluated according to applicable regulations. Disposal must be performed through an authorized waste management firm. Do not discharge waste material into drains or the environment. Do not dispose of waste with household waste. P501: Dispose of contents, container and packaging according to the national, federal, state and international directives in force.

SECTION 14 – TRANSPORT INFORMATION

14.1 UN NUMBER: Products listed in Section 1.1 are not classified as a hazardous material under DOT or a dangerous good under IATA.

14.2 UN PROPER SHIPPING NAME: NA

14.3 TRANSPORT HAZARD CLASS(ES): NA

14.4 PACKING GROUP: NA

14.5 ENVIRONMENTAL HAZARDS: No

14.6 SPECIAL PRECAUTIONS FOR USER: Not classified as a hazardous material or dangerous good under DOT or IATA regulations.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE: Material will not be transported in bulk.

SECTION 15 – REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

Canada	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.	
	WHMIS Hazard Class:	D1A – Materials causing immediate and serious toxic effects – Very toxic material D2B – Materials causing other toxic effects – Toxic material F - Dangerously reactive material
	DSL:	Y
	NDSL:	N
EU	Classification and procedures used to derive the classification for products listed in Section 1.1 according to European Union regulations and directives: 67/548/EEC, 1999/45/EC, 2001/60/EC and Regulation (EC) 1272/2008. This MSDS complies with regulations on Safety Data Sheet preparation; Directive 2001/58/CE and REACH Regulation 1907/2006/CE, article 31.	
	Seveso Category:	None
	EC No. 1907/2006 – Candidate List:	N
	EC No. 1907/2006 Annex XIV – Authorization:	N
	EC No. 1907/2006 Annex XVII – Restrictions:	Component Preparation: 3
	Healthcare Controls:	NE
	Rotterdam Protocol:	N
	Stockholm Protocol:	N
NFPA	Health: 2	Flammability: 0 Reactivity: 2
United States	Product components listed in Section 1.1 are classified in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200, and individual US state Right-to-Know laws.	
	CAA:	N – Does not contain any hazardous air pollutants (HAPs) or Class 1 or 2 Ozone depletors.
	CWA:	N
	CERCLA:	RQ – 1,000 lbs.
	SARA 302:	TPQ – 500 lbs.
	SARA 311/312:	Acute: Y Chronic: Y Fire: Y Pressure: N Reactivity: Y
	SARA 313:	Y – Releases > 1.0 lbs into the air, water or land must be reported.
	TSCA:	Y
	CA Prop 65:	N

15.2 CHEMICAL SAFETY ASSESSMENT: No chemical safety assessment has been conducted.

SECTION 16 – OTHER INFORMATION

16.1 INDICATION OF CHANGES:

DATE	CHANGE
2010-03-25	Initial Safety Declaration
2011-09-01	Updated for Health Canada regulations and newly enacted EU directives.
2012-11-01	Initial MSDS in accordance with EU directives for substance with an established community workplace exposure limit.
2012-11-15	Updated to add kits 310450, 310452, 310680 and 310690.
2012-12-28	Replaced USA poison center information with Canadian poison center information.
2013-11-25	Updated to add kits 310691 and 317912.
2014-05-02	Updated to add kit 310980 and to remove kits 24065 and 24130.
2014-12-19	Updated to add kit 310985 and remove 310640, 310641 and P3093.
2016-01-14	Updated to add kits 310930, 310970 and 318980.
2016-05-19	Updated to add kits 310502, 310512, 310522, 310542, 310742, 310752, 310931, 310933 and 318870.

2016-08-17	Updated to add kits 317060, 317061, 317090 and 317091.
2017-01-17	Updated to add kits 317130, 317131 and 319020.
2017-05-09	Updated to add kit 86100.
2017-11-27	Updated to add kit 310984.
2018-09-12	Updated to add kits 310932, 318310, 318311, 318313,318320, 318321, 318322, 318323, 319140 and 319301.
2018-10-23	Updated to add kits 317150 and 317151.
2019-04-25	Updated to add kit 318330.
2019-07-08	Updated to add kit 318410.
2020-01-06	Updated to add kits 267500, 267510, 317140, 317141, 317143, 318060, 318340, 318350, 318981, 319300.
2020-06-01	Updated to add kits 311020, 311510, and 318360.
2021-11-05	Updated to add kits 270410, 270420 and 318470.

ABBREVIATIONS AND ACRONYMS:

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Standards Institute
C	Concentration
CA	California
CAA	Clean Air Act (USA)
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (USA)
CMR	Carcinogen, Mutagen or Reproductive toxicant
CPR	Controlled Products Regulations (Canada)
CWA	Clean Water Act (USA)
DOT	United States Department of Transportation
DSL	Domestic Substance List (Canada)
EU	European Union
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IDL	Ingredient Disclosure List
IDLH	Immediately dangerous to life or health
Koc	Partition coefficient of the contaminant in the organic fraction of the soil
Kow	Octanol-water partition coefficient
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population
N	No
NA	Not Applicable or Not Available
NE	Not Established
NDSL	Non-Domestic Substance List (Canada)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration (USA)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act (USA)
REACH	Registration, Evaluation, Authorisation of Chemical (EU)
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act (USA)
SCBA	Self-Contained Breathing Apparatus
STOT	Specific Target Organ Toxicity
TSCA	Toxic Substances Control Act (USA)
TWA	Time weighted average
vPvB	Very Persistent and very Bioaccumulative
WHMIS	Workplace Hazardous Materials Information System (Canada)
Y	Yes

16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA:

a. US OSHA 29 CFR 1910.1200
b. CDC - NIOSH website – Guide to Chemical Hazards
c. Directive 67/548/EEC and following amendments
d. Directive 1999/45/EC and following amendments

e. Regulation (EC) 1907/2006 (REACH) of the European Parliament
f. Regulation (EC) 1272/2008 (CLP) of the European Parliament
g. Regulation (EC) 790/2009 (CLP amendment) of the European Parliament
h. Regulation (EC) 453/2010 (REACH amendment) of the European Parliament
i. ECHA website
j. eChemPortal website
k. ESIS website
l. GESTIS website – Substance database and Occupational exposure limits
m. IARC website – Evaluation of carcinogenic risks to humans
n. ILO website – Chemical exposure limits
o. ICSC website
p. IPCS INCHEM website – Chemical Safety Information
q. Health Canada website
r. Canada Labour Health and Safety website
s. CCOHS website

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