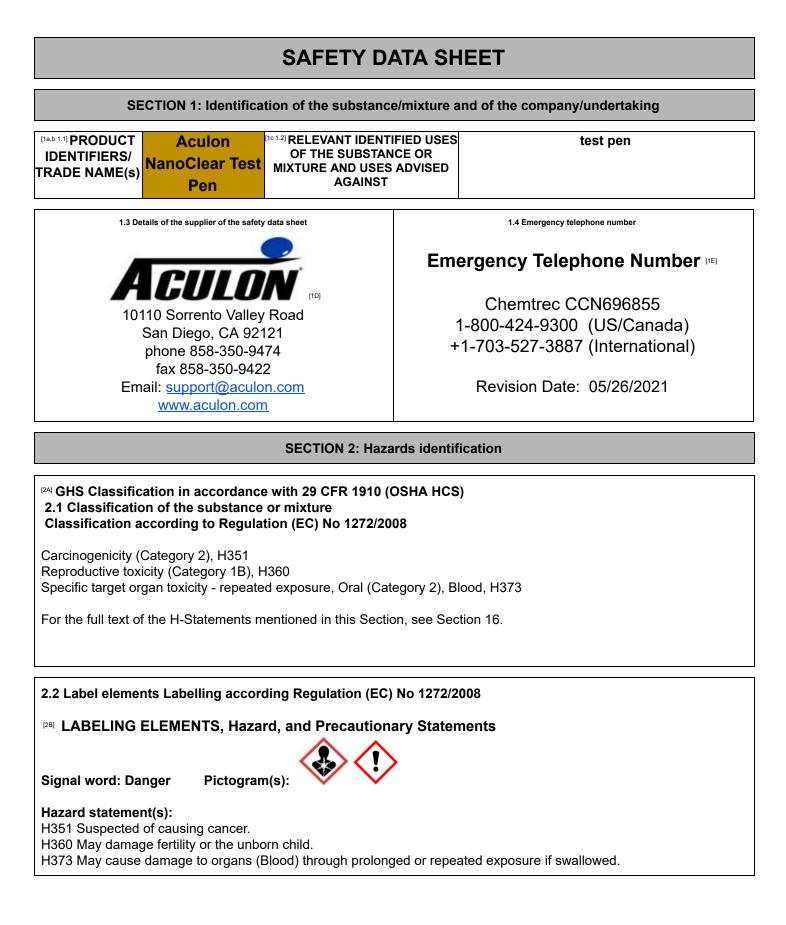
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Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P308 + P313 IF exposed or concerned: Get medical advice/ a

P405 Store locked up.

١

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements: none

^{12C 2.3]}**OTHER HAZARDS NOT OTHERWISE CLASSIFIED:** 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.

^[2D]INGREDIENTS OF UNKNOWN ACUTE TOXICITY >/= 1%: none

SECTION 3: Composition/information on ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008 and 29 CFR 1910 (OSHA HCS)			
Component	Classification	Concentration	
Basic Violet 1; synonyms Methyl Viole formula: (CH ₃) ₂ CHOH Mol wt.: 60.10	t 2B		
CAS-No. 8004-87-3 EC-No. Index-No	Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H302, H351, H410	0.3%	
Hazardous ingredients according to	Regulation (EC) No 1272/2008 and 29	CFR 1910 (OSHA HCS)	
······································	······································		
Component	Classification	Concentration	
Formic amide; synonyms formamide;; <i>i</i> Included in the Candidate List of Substance Formula : CH3NO Molecular weight : 45.04 g/mol	Amide C1 es of Very High Concern (SVHC) according to	Regulation (EC) No. 1907/2006 (REACH)	
CAS-No. : 75-12-7 EC-No. : 200-842-0 Index-No. : 616-052-00-8 Registration number : 01-2119496064-35-XXXX	Carc. 2; Repr. 1B; STOT RE 2; H351, H360, H373	60 - 70%	

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* The specific chemical identity and/or percentage of this material has been withheld as a trade secret.

SECTION 4: First aid measures

4.1 Description of	first aid measures
General advice	
[4a]INHALATION	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a
	physician.
[4a]SKIN CONTACT	Wash off with soap and plenty of water. Consult a physician.
	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with
	water. Consult a physician.
^[4b] MOST	The most important known symptoms and effects are described in the labelling (see section 2) and/or
IMPORTANT	in section 11
SYMPTOMS &	
EFFECTS	
	no data available
ANY IMMEDIATE	
MEDICAL	
ATTENTION AND	
SPECIAL	
TREATMENT	
NEEDED	

SECTION 5: Firefighting measures		
^{[5a] 5.1} Extinguishing Media/SUITABLE/ UNSUITABLE EXTINGUISHING MEDIA	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
(5b) 5.2 SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE(IE HAZARDOUS COMBUSTION PRODUCTS)	Burning may form Carbon oxides and Nitrogen oxides. Use water spray to cool unopened containers.	
دی ADVICE FOR FIREFIGHTERS/ PRECAUTIONS / SPECIAL PROTECTIVE EQUIPMENT	Wear self contained breathing apparatus for fire fighting if necessary.	
5.4 FURTHER INFORMATION	Use water spray to cool unopened containers.	

SECTION 6: Accidental release measures

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[6a] 6.1 PERSONAL	Use personal protective equipment. Avoid breathing vapours. Ensure adequate ventilation.
PRECAUTIONS,	Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations.
PPE, EMERGENCY	Vapours can accumulate in low areas.
PROCEDURES	For personal protection see section 8.
6.2 Environmental	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
precautions	
^{[6a] 6.3} METHODS &	Contain spillage, wipe up any liquid and place in container for disposal according to local
MATERIALS FOR	regulations (see section 13).
CONTAINMENT &	
CLEANING UP	
^{6.4} REFERENCE TO	For disposal see section 13.
OTHER SECTIONS	

SECTION 7: Handling and storage

^[7a] ^{7.1} PRECAUTIONS	Avoid contact with skin and eyes. Avoid inhalation of vapour. Keep away from sources of ignition -
FOR SAFE	No smoking. Take measures to prevent the buildup of electrostatic charge.
HANDLING	For precautions see section 2.2.
^{[7b]7.2} CONDITIONS	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers
FOR SAFE	which are opened must be used immediately before they dry out.
STORAGE,	
INCLUDING ANY	
INCOMPATIBILITIES	
7.3 SPECIFIC END	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
USES	

SECTION 8: Exposure controls/personal protection

^{8.1} CONTROL PARAMETERS: COMPONENTS WITH WORKPLACE CONTROL PARAMETERS				
[8a] COMPONENT	CAS#	PEL/ TWA/ STEL	CONTROL PARAMETERS	BASIS (ACGIH, OSHA ETC)
Formamide	75-12-7	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye irritatio Liver dama Kidney dan Skin irritatio Danger of o	ige nage	n
		TWA	10 ppm 15 mg/m3	USA. NIOSH Recommended Exposure Limits
	Remarks	Potential fo	or dermal absorption	

[6b]^{8.2} **EXPOSURE** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

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CONTROLS/	and at the end of workday.
VENTILATION /	and at the end of workday.
ENGINEERING	
CONTROLS	
PERSONAL PROTEC	
[8c]RESPIRATORY	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator
PROTECTION	with multi purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup
	to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air
	respirator. Use respirators and components tested and approved under appropriate government
	standards such as NIOSH (US) or CEN (EU).
	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique
	(without touching the glove's outer surface) to avoid skin contact with this product. Dispose of
	contaminated gloves after use in accordance with applicable laws and good laboratory practices.
	Wash and dry hands.
	Full contact
	Material: Nitrile rubber
	Minimum layer thickness: 0.2 mm
	Break through time: 480 min
	Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)
	Splash contact
	Material: Nitrile rubber
	Minimum layer thickness: 0.11 mm
	Break through time: 450 min
	Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)
	data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de,
	test method:
	EN374
	If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the
	supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated
	by an
	industrial hygienist and safety officer familiar with the specific situation of anticipated use by our
	customers. It
	should not be construed as offering an approval for any specific use scenario.
	Safety glasses. Use equipment for eye protection tested and approved under appropriate
	government standards such as NIOSH (US) or EN 166(EU).
	Wear impervious clothing. The type of protective equipment must be selected according to the
PROTECTION	concentration and amount of the dangerous substance at the specific workplace.
CONTROL OF	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
ENVIRONMENTAL	
EXPOSURE	

SECTION 9: Physical and chemical properties

[9a]Appearance (physical state, color,	Liquid, purple color	[9j]Upper/lower flammability	Lower: 19% (V)
etc.		or explosive limits:	UEL: 2.7% (2.7)
[9b] Odor	Ammonia odor	[9k]Vapor pressure	no data available
[9c]Odor threshold	no data available	[9]Vapor density	no data available
[90] Hq[b0]	no data available	[9m]Relative Density	no data available
[9e]]Melting point/freezing point	no data available	[9n]Solubility (in H ₂ O)	miscible

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ঢাlnitial boiling point and boiling	no data available	[90] Partition coefficient:	no data available
range		n-octanol/water	
وار]Flash point	> 175C	[9p]Auto-ignition temperature	425.0 °C (797.0 °F)
[9h]Evaporation rate	no data available	[9q]Decomposition	no data available
		temperature	
ঞFlammability (solid, gas)	no data available	[9r]Viscosity	no data available
		[9s] Explosive Properties	no data available
		[9t]Oxidizing Properties	no data available
9.2 Other safety information:	No data available		

SECTION 10: Stability and reactivity

^[10a 10.1] REACTIVITY	no data available
[10b 10.2] CHEMICAL	Stable under recommended storage conditions
STABILITY	
[10c 10.3] POSSIBILITIES	none known
OF HAZARDOUS	
REACTIONS	
[10d 10.4] CONDITIONS TO	heat
AVOID	
[10e 10.5] INCOMPATIBLE	Strong oxidizing agents, bases, hydrogen peroxide, iodine, pyridine, sulphur oxides
MATERIALS	
[10f 10.6] HAZARDOUS	Other decomposition products - no data available
DECOMPOSITION	In the event of fire: see section 5
PRODUCTS	

SECTION 11: Toxicological information

OF EXPOSURE	INHALATION: is not expected if proper ventilation or personal protective equipment is used while
	working with this product
	INGESTION: Ingestion is not expected if proper industrial hygiene practices are followed, including no eating, drinking, or smoking while working with chemicals
	SKIN: is not expected if proper personal protective equipment (gloves and protective clothing) is
	used while working with this product
	EYE CONTACT: is not expected if proper personal protective equipment (safety glasses or
	goggles) is used while working with this product
[11b] SYMPTOMS	INHALATION: No data available
RELATED TO	INGESTION: Presumed human reproductive toxicant on repeated exposure
PHYSICAL,	SKIN: Presumed human reproductive toxicant on repeated exposure
CHEMICAL & TOXIC	EYE CONTACT: May cause Mild irritation
CHARACTERISTICS	
[11d] DELAYED /	Reproductive toxicity: Presumed human reproductive toxicant
IMMEDIATE	Reproductive toxicity - Rat - Oral
EFFECTS,	Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total
CHRONIC EFFECTS	number of implants).
FROM	Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
SHORT/LONG	Developmental Toxicity - Rat - Skin

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	Effects on Embryo or Fetus: Fetal death.
	Specific target organ toxicity - single exposure: No data available
	Specific target organ toxicity - repeated exposure: Oral - May cause damage to organs through
	prolonged or repeated exposure Blood
	Aspiration hazard: No data available
	ACUTE TOXICITY ESTIMATES:
MEASURES OF	Acute toxicity (formamide)
TOXICITY	LD50 Oral - Rat - male and female - 5,325 mg/kg (OECD Test Guideline 401)
	LC50 Inhalation - Rat - male - 4 h - > 21 mg/l (OECD Test Guideline 403)
	LD50 Dermal - Rat - male and female - > 3,000 mg/kg
	Skin corrosion/irritation
	Skin - Rabbit Result: No skin irritation - 20 h
	Serious eye damage/eye irritation
	Eyes - Rabbit Result: Mild eye irritation (OECD Test Guideline 405)
	Respiratory or skin sensitisation
	No data available
	Germ cell mutagenicity
	Ames test
	S. typhimurium
	Result: negative
	Mutagenicity (micronucleus test)
	Mouse - male and female
	Result: negative
	5
	Carcinogenicity
	Formamide: Suspected human carcinogens
	Basic Violet 1: Limited evidence of a carcinogenic effect.
	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as
	probable, possible or confirmed human carcinogen by IARC.
	ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a
	known or anticipated carcinogen by NTP.
	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as
	a
	carcinogen or potential carcinogen by OSHA.
ADDITIONAL	(Formamide)
INFORMATION	Repeated dose toxicity - Rat - female - Oral - No observed adverse effect level - 40 mg/kg
	Repeated dose toxicity - Rat - male and female - Dermal - No observed adverse effect level - 100
	mg/kg
	RTECS: LQ0525000
	Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological
	properties have
	not been thoroughly investigated.
	Blood - Irregularities - Based on Human Evidence
	Blood - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

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Formamide Toxicity data
Toxicity to fish static test LC50 - Leuciscus idus (Golden orfe) - 6,569 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates
static test EC50 - Daphnia magna (Water flea) - > 500 mg/l - 48 h
Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - > 500 mg/l - 72 h
Toxicity to bacteria Respiration inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 30 min (OECD
Test Guideline 209)
,
Basic Violet 1 Toxicity data
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.047 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia magna (Water flea) - 420 mg/l
- 48 h
Formamide: Biodegradability aerobic - Exposure time 28 d Result: 99 % - Readily biodegradable
(OECD Test Guideline 301A)
No data available
No data available
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
No data available

SECTION 13: Disposal considerations

^[13]Contact a licensed professional waste disposal service. Contaminated Packaging Disposal: Contact a licensed professional waste disposal service.

SECTION 14: Transport information

	14.1[a] UN number	14.2[b] UN proper shipping name	14.3[c] Transport hazard class(es)	14.4[d] Packaging group	14.5[e] Environmental hazards
ADR/RID:	Not dangerous goods				
IMDG:	Not dangerous goods				
IATA:	Not dangerous goods				

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US DOT	Not dangerous goods		

Marine Pollutant: no
IMDG: NOT APPLICABLE
none known

SECTION 15: Regulatory information

EU This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	No data available	
15.2 Chemical Safety Assessment	For this product a chemical safety assessment was not carried out	

US

TSCA	The components in this mixture are listed on the US inventory.	
OSHA	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard.	
SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
• • •	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
Sara 311/312 Hazards	Chronic Health Hazard	
Massachusetts Right To Know Components	Formamide, CAS-No. 75-12-7 Revision Date 1994-04-01	
Pennsylvania Right To Know Components	Formamide, CAS-No. 75-12-7 Revision Date 1994-04-01 C.I. Basic violet 1, CAS-No CAS-No. 8004-87-3	
New Jersey Right To Know Components	Formamide, CAS-No. 75-12-7 Revision Date 1994-04-01 C.I. Basic violet 1, CAS-No CAS-No. 8004-87-3	
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	

SECTION 16: Other information

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Carc. Carcinogenicity H351 Suspected of causing cancer. Revision Date: 05/26/2021 Ver. 3.0

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H360 May damage fertility or the unborn child.

- H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
- Repr. Reproductive toxicity
- STOT RE Specific target organ toxicity repeated exposure
- Acute Tox. Acute toxicity

Aquatic Acute Acute aquatic toxicity

Aquatic Chronic Chronic aquatic toxicity

Carc. Carcinogenicity

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

INFORMATION CONTAINED IN THIS SAFETY DATA SHEET IS FOR USE BY TECHNICALLY QUALIFIED PERSONNEL AT THEIR DISCRETION AND RISK. ALL STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON TESTS AND DATA WHICH WE BELIEVE TO BE RELIABLE, BUT THE ACCURACY OR COMPLETENESS THEREOF IS NOT GUARANTEED AND NO WARRANT OF ANY KIND IS MADE WITH RESPECT THERETO. SINCE THE COMPANY SHALL HAVE NO CONTROL OF THE USE OF THE PRODUCT DESCRIBED HEREIN, THE COMPANY ASSUMES NO LIABILITY OF LOSS OR DAMAGE INCURRED FROM THE PROPER OR IMPROPER USE OF SUCH PRODUCT.

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