

# SAFETY DATA SHEET

## Be Right<sup>™</sup>

Issue Date 11-Jan-2018 Revision Date 30-Jul-2018 Version 1.3 Page 1/17 **1. IDENTIFICATION** Product identifier **Product Name** sTKN D Other means of identification **TNT880D** Product Code(s) Safety data sheet number M01920 UN/ID no UN1987 Recommended use of the chemical and restrictions on use

**Recommended Use** Determination of nitrate. Uses advised against None. **Restrictions on use** None.

Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

## 2. HAZARDS IDENTIFICATION

#### Classification

#### **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	
Skin sensitization	
Mutagenicity	
Carcinogenicity	
Reproductive toxicity	
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Signal word - Warning

Product Name sTKN D Revision Date 30-Jul-2018 Page 2 / 17



#### Hazard statements

H226 - Flammable liquid and vapor

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

#### Precautionary statements

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P271 Use only outdoors or in a well-ventilated area
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 Call a POISON CENTER or doctor if you feel unwell
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- 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
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- P403 + P235 Store in a well-ventilated place. Keep cool

#### Other Hazards Known

Causes mild skin irritation

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

## Substance

Not applicable

<u>Mixture</u>

#### Percent ranges are used where confidential product information is applicable.

Isopropyl alcohol         67-63-0         20 - 30%         -           0.0 Dimethods and         570.0004         40%	Chemical name	CAS No.	Percent Range	HMRIC #
	Isopropyl alcohol	67-63-0	20 - 30%	-
<b>2,6-Dimetrylphenol</b> 576-26-1 <1% -	2,6-Dimethylphenol	576-26-1	<1%	-
Isoamyl acetate 123-92-2 <1% -	Isoamyl acetate	123-92-2	<1%	-

## **4. FIRST AID MEASURES**

Description of first aid measures	
General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Indication of any immediate medica	al attention and special treatment needed
Note to physicians	Treat symptomatically.
	5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Hazardous combustion products	Carbon monoxide, Carbon dioxide.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
	6. ACCIDENTAL RELEASE MEASURES

 U.S. Notice
 Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

 Personal precautions, protective equipment and emergency procedures

 Personal precautions
 Evacuate personnel to safe areas. Use personal protective equipment as required. See

 EN / AGHS
 Page 3/17

Product Code(s) TNT880D Issue Date 11-Jan-2018 Version 1.3	Product Name sTKN D Revision Date 30-Jul-2018 Page 4 / 17
	section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.
Other Information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
Environmental precautions	
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods and material for containm	ent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
Reference to other sections	See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing Advice on safe handling vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from **Storage Conditions** heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with particular national and local regulations.

Flammability class

Class IC

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

## **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
EN / AGHS			Page 4/17

#### Product Name sTKN D Revision Date 30-Jul-2018 Page 5 / 17

Isopropyl alcohol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
CAS#: 67-63-0	TWA: 200 ppm	TWA: 980 mg/m <sup>3</sup>	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m <sup>3</sup>
		(vacated) TWA: 980 mg/m <sup>3</sup>	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m <sup>3</sup>
		(vacated) STEL: 1225 mg/m <sup>3</sup>	-
Isoamyl acetate	STEL: 100 ppm	TWA: 100 ppm	IDLH: 1000 ppm
CAS#: 123-92-2	TWA: 50 ppm	TWA: 525 mg/m <sup>3</sup>	TWA: 100 ppm
		(vacated) TWA: 100 ppm	TWA: 525 mg/m <sup>3</sup>
		(vacated) TWA: 525 mg/m <sup>3</sup>	-

#### Appropriate engineering controls Engineering Controls Showers Eyewash stations

Ventilation systems.

Individual protection measures, such as personal protective equipment			
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.		
Hand Protection	Wear suitable gloves. Impervious gloves.		
Eye/face protection	Tight sealing safety goggles.		
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.		
General Hygiene Considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.		
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.		
Thermal hazards	None under normal processing.		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Alcoholic	Liquid		Color Odor threshold	colorless No data ava	ailable
Property_			Values			Remarks • Method
Molecular weigh	t		No data availat	ble		
рН			6			
Melting point/fre	ezing point		~ -3 °C / 26.0	∂°F		Estimation based on theoretical calculation
Boiling point / bo	oiling range		82 °C / 179.6	°F		
Evaporation rate			1.03 (water = 1	)		Estimation based on theoretical calculation
Vapor pressure			22.052 mm Hg	/ 2.94 kPa at 25	°C / 77 °F	Estimation based on theoretical

EN / AGHS

Product Name sTKN D Revision Date 30-Jul-2018 Page 6 / 17

calculation

Vapor density (air = 1)	0.73 (air = 1)
Specific gravity (water = 1 / air = 1)	0.95
Partition Coefficient (n-octanol/water)	Not applicable
Soil Organic Carbon-Water Partition Coefficient	Not applicable
Autoignition temperature	No data available
Decomposition temperature	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available

#### Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	20 °C / 68 °F

#### Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

#### **Other Information**

#### **Metal Corrosivity**

Steel Corrosion Rate Aluminum Corrosion Rate No data available No data available

#### Volatile Organic Compounds (VOC) Content See ingredients information below

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Isopropyl alcohol	67-63-0	100%	Х
2,6-Dimethylphenol	576-26-1	No data available	-
Isoamyl acetate	123-92-2	No data available	Х

#### **Explosive properties**

Upper explosion limit	No data available
Lower explosion limit	No data available
Flammable properties	
Flash point	26 °C / 78.8 °F
Method	DIN 51755 Part 1
Flammability Limit in Air Upper flammability limit Lower flammability limit	No data available No data available

Product Code(s) TNT880D Issue Date 11-Jan-2018 Version 1.3		Product Name sTKN D Revision Date 30-Jul-2018 Page 7 / 17
Oxidizing properties		No data available.
Bulk density		No data available
Particle Size	No information available	
Particle Size Distribution	No information available	

## **10. STABILITY AND REACTIVITY**

Reactivity
Not applicable.

<u>Chemical stability</u> Stability

Stable under normal conditions.

Explosion data Sensitivity to Mechanical Impact None Sensitivity to Static Discharge Yes.

Possibility of Hazardous Reactions Possibility of Hazardous Reactions None under normal processing.

<u>Hazardous polymerization</u> None under normal processing.

<u>Conditions to avoid</u> Conditions to avoid

Heat, flames and sparks.

Incompatible materials Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on Likely Routes of Exposure Product Information

Inhalation	May cause irritation of respiratory tract. May cause drowsiness or dizziness.
Eye contact	Causes serious eye irritation. May cause redness, itching, and pain.
Skin contact	May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms	May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Aggravated Medical Conditions Toxicologically synergistic products	Skin disorders. Eye disorders. Preexisting eye disorders. Respiratory disorders. None known.
•	See ingredients information below.

Chemical name

Toxicokinetics, metabolism and distribution

EN / AGHS

Product Name sTKN D Revision Date 30-Jul-2018 Page 8 / 17

Chemical name	Toxicokinetics, metabolism and distribution
	Isopropanol is rapidly absorbed across the gastric mucosa and reaches a peak concentration approximately 30-120 minutes after ingestion. Isopropanol is primarily metabolized via alcohol dehydrogenase to acetone.

#### Product Acute Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

No data available No data available No data available No data available No data available

#### Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Acute Toxicity Estimations (ATE)

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	15,425.00 mg/kg
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

## Ingredient Acute Toxicity Data

Oral Exposure Route	<u>iony Duta</u>			If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
lsopropyl alcohol (20 - 30%) CAS#: 67-63-0	Rat LD₅₀	4710 mg/kg	None reported	Behavioral General anesthetic	OECD (Organization for Economic Co-operation and Development)
2,6-Dimethylphenol (<1%) CAS#: 576-26-1	Rat LD <sub>50</sub>	296 mg/kg	None reported	None reported	LOLI
Isoamyl acetate (<1%) CAS#: 123-92-2	Rat LD <sub>50</sub>	16600 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Dermal Exposure Ro	ute			If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Isopropyl alcohol (20 - 30%) CAS#: 67-63-0	Rabbit LD50	12800 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
2,6-Dimethylphenol (<1%) CAS#: 576-26-1	Rabbit LD₅₀	1000 mg/kg	None reported	None reported	LOLI
Inhalation (Dust/Mist	) Exposure R	oute		If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Isopropyl alcohol (20 - 30%) CAS#: 67-63-0	Rat LC50	72.6 mg/L	4 hours	Behavioral General anesthetic Lungs, Thorax, or Respiration Other changes	RTECS (Registry of Toxic Effects of Chemical Substances)
Inhalation (Vapor) Exposure Route				If available, see data below	

Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below

Product Name sTKN D Revision Date 30-Jul-2018 Page 9 / 17

Product Specific Target Organ Toxicity Single Exposure DataOral Exposure RouteNo datDermal Exposure RouteNo datInhalation (Dust/Mist) Exposure RouteNo datInhalation (Vapor) Exposure RouteNo datInhalation (Gas) Exposure RouteNo dat

No data available No data available No data available No data available No data available

## Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route	)		If available, see data below			
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and	
	type	dose	time		sources for data	
Isopropyl alcohol	Human	223 mg/kg	None	Behavioral	RTECS (Registry of Toxic	
(20 - 30%)	TDLo		reported	Hallucinations, Distorted	Effects of Chemical	
CAS#: 67-63-0				perceptions	Substances)	
				Cardiac		
				Pulse rate decrease with fall in		
				BP		
				Vascular		
				BP lowering not characterized in		
				autonomic section		
Dermal Exposure Ro				If available, see data below		
Inhalation (Dust/Mist				If available, see data below		
Inhalation (Vapor) Ex	posure Route	9		If available, see data below		
			_			
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and	
Chemical name	Endpoint type	Reported dose	time	Toxicological effects	sources for data	
Chemical name Isopropyl alcohol	Endpoint type Human	Reported	-	Toxicological effects Cardiac	sources for data RTECS (Registry of Toxic	
Chemical name Isopropyl alcohol (20 - 30%)	Endpoint type	Reported dose	time	Toxicological effects Cardiac Pulse rate decrease with fall in	sources for data RTECS (Registry of Toxic Effects of Chemical	
Chemical name Isopropyl alcohol	Endpoint type Human	Reported dose	time	Toxicological effects Cardiac Pulse rate decrease with fall in BP	sources for data RTECS (Registry of Toxic	
Chemical name Isopropyl alcohol (20 - 30%)	Endpoint type Human	Reported dose	time	Toxicological effects Cardiac Pulse rate decrease with fall in BP Lungs, Thorax, or	sources for data RTECS (Registry of Toxic Effects of Chemical	
Chemical name Isopropyl alcohol (20 - 30%)	Endpoint type Human	Reported dose	time	Toxicological effects Cardiac Pulse rate decrease with fall in BP Lungs, Thorax, or Respiration	sources for data RTECS (Registry of Toxic Effects of Chemical	
Chemical name Isopropyl alcohol (20 - 30%) CAS#: 67-63-0	Endpoint type Human TC⊾o	Reported dose 35 mg/L	time 4 hours	Toxicological effects Cardiac Pulse rate decrease with fall in BP Lungs, Thorax, or Respiration Other changes	sources for data RTECS (Registry of Toxic Effects of Chemical Substances)	
Chemical name Isopropyl alcohol (20 - 30%)	Endpoint type Human TCLo Endpoint	Reported dose 35 mg/L Reported	time 4 hours Exposure	Toxicological effects Cardiac Pulse rate decrease with fall in BP Lungs, Thorax, or Respiration	sources for data RTECS (Registry of Toxic Effects of Chemical Substances) Key literature references and	
Chemical name Isopropyl alcohol (20 - 30%) CAS#: 67-63-0 Chemical name	Endpoint type Human TCLo Endpoint type	Reported dose 35 mg/L Reported dose	time 4 hours Exposure time	Toxicological effects Cardiac Pulse rate decrease with fall in BP Lungs, Thorax, or Respiration Other changes Toxicological effects	sources for data RTECS (Registry of Toxic Effects of Chemical Substances) Key literature references and sources for data	
Chemical name Isopropyl alcohol (20 - 30%) CAS#: 67-63-0 Chemical name Isopropyl alcohol	Endpoint type Human TCL₀ Endpoint type Human	Reported dose 35 mg/L Reported	time 4 hours Exposure	Toxicological effects Cardiac Pulse rate decrease with fall in BP Lungs, Thorax, or Respiration Other changes Toxicological effects Biochemical	sources for data RTECS (Registry of Toxic Effects of Chemical Substances) Key literature references and sources for data RTECS (Registry of Toxic	
Chemical name Isopropyl alcohol (20 - 30%) CAS#: 67-63-0 Chemical name Isopropyl alcohol (20 - 30%)	Endpoint type Human TCLo Endpoint type	Reported dose 35 mg/L Reported dose	time 4 hours Exposure time	Toxicological effects Cardiac Pulse rate decrease with fall in BP Lungs, Thorax, or Respiration Other changes Toxicological effects Biochemical Enzyme inhibition, induction, or	sources for data RTECS (Registry of Toxic Effects of Chemical Substances) Key literature references and sources for data RTECS (Registry of Toxic Effects of Chemical	
Chemical name Isopropyl alcohol (20 - 30%) CAS#: 67-63-0 Chemical name Isopropyl alcohol	Endpoint type Human TCL₀ Endpoint type Human	Reported dose 35 mg/L Reported dose	time 4 hours Exposure time	Toxicological effects Cardiac Pulse rate decrease with fall in BP Lungs, Thorax, or Respiration Other changes Toxicological effects Biochemical	sources for data RTECS (Registry of Toxic Effects of Chemical Substances) Key literature references and sources for data RTECS (Registry of Toxic Effects of Chemical	

Inhalation (Gas) Exposure Route

If available, see data below

#### Aspiration toxicity No data available

No data avallable

## Product Skin Corrosion/Irritation Data

No data available.

## Ingredient Skin Corrosion/Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Isopropyl alcohol (20 - 30%) CAS#: 67-63-0	Standard Draize Test	Rabbit	500 mg	None reported	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
2,6-Dimethylphenol (<1%) CAS#: 576-26-1	Organization for Economic Co-operation and Development (OECD) - Test 404: Acute Dermal Corrosion/Irritation		500 mg	24 hours	Corrosive to skin	ECHA (The European Chemicals Agency)

Product Name sTKN D Revision Date 30-Jul-2018 Page 10 / 17

## Product Serious Eye Damage/Eye Irritation Data

No data available.

#### Ingredient Eye Damage/Eye Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
lsopropyl alcohol (20 - 30%) CAS#: 67-63-0	Standard Draize Test	Rabbit	100 mg	None reported	Corrosive to eyes	RTECS (Registry of Toxic Effects of Chemical Substances)
Isoamyl acetate (<1%) CAS#: 123-92-2	Standard Draize Test	Rabbit	None reported	None reported	Eye irritant	ERMA (New Zealands Environmental Risk Management Authority)

#### **Sensitization Information**

#### <u>Product Sensitization Data</u> Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route

## Ingredient Sensitization Data

Skin Sensitization Exposure Route If available, see data below. Chemical name Results Key literature references and Test method **Species** sources for data Isopropyl alcohol None reported Guinea pig Not confirmed to be a skin sensitizer OECD (Organization for Economic (20 - 30%) Co-operation and Development) CAS#: 67-63-0

**Respiratory Sensitization Exposure Route** 

If available, see data below.

No data available.

No data available.

#### **Chronic Toxicity Information**

Product Specific Target Organ Toxicity Repeat Dose Data	
Oral Exposure Route	No data available.
Dermal Exposure Route	No data available.
Inhalation (Dust/Mist) Exposure Route	No data available.
Inhalation (Vapor) Exposure Route	No data available.
Inhalation (Gas) Exposure Route	No data available.

### Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route	If available, see data below
Dermal Exposure Route	If available, see data below
Inhalation (Dust/Mist) Exposure Route	If available, see data below
Inhalation (Vapor) Exposure Route	If available, see data below
Inhalation (Gas) Exposure Route	If available, see data below
Product Carcinogenicity Data	
Oral Exposure Poute	No data available

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route No data available No data available No data available No data available No data available

#### Ingredient Carcinogenicity Data

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol	67-63-0	-	Group 3	-	Х
2,6-Dimethylphenol	576-26-1	-	-	-	-
Isoamyl acetate	123-92-2	-	-	-	-

EN / AGHS

Page 10/17

## Legend

-									
ACGIH (American Co				Hygienists)			Does not apply Group 3 - Not classifiable as a human		
IARC (International A	gency for Re	search on Ca	ncer)					iable as a human	
NTD (National Taxia		-)				carcin			
NTP (National Toxico OSHA (Occupational			tration of	the US Deper	tmont of	X - Pr	not apply		
Labor)	Salety and H			ine 05 Depai	timent of	A - PI	esem		
Oral Exposure Route				lf available	, see data bel	ow			
Dermal Exposure Ro					, see data bel				
	Ilation (Dust/Mist) Exposure Route If available, see da								
Inhalation (Vapor) Ex		•			, see data bel				
Inhalation (Gas) Expo	osure Route			If available	e, see data bel	ow			
Product Germ Cell M	utagenicity in	vitro Data							
No data available.									
Ingredient Germ Cell	Mutagenicity	<i>invitro</i> Data							
No data available									
Product Germ Cell M		vivo Data							
Oral Exposure Route				No data av					
Dermal Exposure Ro Inhalation (Dust/Mist		outo		No data av No data av					
Inhalation (Vapor) Ex				No data av					
Inhalation (Gas) Exp		•		No data av					
· · ·									
Ingredient Germ Cell		<i>invivo</i> Data		lf available	a a a data hal	~~~			
Oral Exposure Route Dermal Exposure Ro					e, see data bel e, see data bel				
Inhalation (Dust/Mist		oute			e, see data bel				
Chemical name	Test		ecies	Reported	Exposure		Results	Key literature	
				dose	time			references and	
								sources for data	
Isopropyl alcohol	Cytogenet	ic F	Rat	0.00103 mg/L	16 weeks			RTECS (Registry	
(20 - 30%)	analysis					mu	itagenicity	of Toxic Effects of	
CAS#: 67-63-0								Chemical Substances)	
Inhalation (Vapor) Ex	nosure Route	<u> </u>		lf available	e, see data bel	0₩		Subsidiices	
Inhalation (Gas) Exp		•			e, see data bel				
					,				
Product Reproductiv	e Toxicity Dat	t <u>a</u>							
Oral Exposure Route				No data av					
Dermal Exposure Route No data available									
nhalation (Dust/Mist) Exposure Route     No data available       nhalation (Vapor) Exposure Route     No data available									
Inhalation (Vapor) Expo	posure Route	;		No data av					
Ingredient Reproduct	tive Toxicity D	<u>Data</u>							
Oral Exposure Route	-			lf available	, see data bel	ow			
Chemical name	Endpoint	Reported	Exposur	e Toxio	cological effe	cts	Key literatur	e references and	
	type	dose	time					es for data	
Isopropyl alcohol	Rat	32.4 mg/kg	None		on Embryo oi	r Fetus		egistry of Toxic	
(20 - 30%)	TDLo		reported	1	Fetal death			of Chemical	
CAS#: 67-63-0	En de 11	Dans f. f	<b></b>			- 1 -		stances)	
Chemical name	Endpoint	Reported	Exposur	e loxid	cological effe	cts	Key literatur	e references and	

Isopropyl alcohol

type

Rat

dose

3500 mg/kg

time

None

**Effects on Fertility** 

sources for data

RTECS (Registry of Toxic

#### Product Name sTKN D Revision Date 30-Jul-2018 Page 12 / 17

(20, 20%)	TD		roportod	Moting portormonoo (o.g. #	Effects of Chamical
(20 - 30%)	TDLo		reported	Mating performance (e.g. #	Effects of Chemical
CAS#: 67-63-0				sperm positive females per #	Substances)
				females mated; # copulations	
				per # estrus cycles)	
Dermal Exposure Ro				If available, see data below	
nhalation (Dust/Mist	/ 1			If available, see data below	
nhalation (Vapor) Ex	posure Route	)	-	If available, see data below	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Isopropyl alcohol	Rat	7000 mg/L	19 days	Specific Developmental	RTECS (Registry of Toxic
(20 - 30%)	TCLO			Abnormalities	Effects of Chemical
CAS#: 67-63-0				Musculoskeletal system	Substances)
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Isopropyl alcohol	Rat	10000 mg/L	19 days	Effects on Embryo or Fetus	RTECS (Registry of Toxic
(20 - 30%)	TCLO			Fetal death	Effects of Chemical
CAS#: 67-63-0				Effects on Fertility	Substances)
				Post-implantation mortality (e.g.	
				dead and/or resorbed implants	
				per total number of implants)	
				Pre-implantation mortality (e.g.	
				reduction in number of implants	
				per female; total number of	
				implants per corpora lutea)	
nhalation (Gas) Exp	osure Route			If available, see data below	

## **12. ECOLOGICAL INFORMATION**

Ecotoxicity

#### Product Ecological Data

Aquatic toxicity

Fish Crustacea Algae No data available No data available No data available

## Ingredient Ecological Data

## Aquatic toxicity

Fish		lf a	available, see i	ngredient data	below
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
lsopropyl alcohol (20 - 30%) CAS#: 67-63-0	96 hours	Pimephales promelas	LC50	4200 mg/L	IUCLID (The International Uniform Chemical Information Database)
2,6-Dimethylphenol (<1%) CAS#: 576-26-1	96 hours	Oryzias latipes	LC50	15 mg/L	ECHA (The European Chemicals Agency)
Crustacea		lf a	available, see i	ngredient data	below
Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and
	time		type	dose	sources for data
lsopropyl alcohol (20 - 30%) CAS#: 67-63-0	48 Hours	None reported	LC50	1400 mg/L	IUCLID (The International Uniform Chemical Information Database)
2,6-Dimethylphenol (<1%) CAS#: 576-26-1	48 Hours	Daphina magna	EC <sub>50</sub>	11 mg/L	ECHA (The European Chemicals Agency)

EN / AGHS

Page 12/17

#### Product Name sTKN D Revision Date 30-Jul-2018 Page 13 / 17

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
2,6-Dimethylphenol (<1%) CAS#: 576-26-1	21 days	Daphina magna	NOEC	0.54 mg/L	ECHA (The European Chemicals Agency)
Algae		If av	/ailable, see i	ngredient data b	below
Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and
	time	-	type	dose	sources for data
Isopropyl alcohol (20 - 30%) CAS#: 67-63-0	72 Hours	Scenedesmus subspicatus	EC <sub>50</sub>	> 1000 mg/L	IUCLID (The International Uniform Chemical Information Database)

#### **Other Information**

#### Persistence and degradability

## Product Biodegradability Data

No data available.

#### Ingredient Biodegradability Data

Chemi	cal name	Test method	Biodegradation	Exposure time	Results
(20	oyl alcohol - 30%) : 67-63-0	None reported	95%	21 days	Readily biodegradable

## Bioaccumulation

#### **Product Bioaccumulation Data**

No data available.

#### Partition Coefficient (n-octanol/water)

Not applicable

#### Ingredient Bioaccumulation Data

Chemical name	Test method	Exposure time	Species	Bioconcentrat ion factor (BCF)	Results
2,6-Dimethylphenol (<1%) CAS#: 576-26-1	Estimation through BCFBAF v3.01 part of the Estimation Programs Interface (EPI) Suite™	None reported	None reported	BCF = 1.22	Does not have the potential to bioaccumula te

#### Mobility

#### Soil Organic Carbon-Water Partition Coefficient

Not applicable

#### Water solubility

Water solubility classification	<u>Water solubility</u>	Water Solubility Temperature
Soluble	> 1000 mg/L	20 °C / 68 °F

#### Other adverse effects

No information available.

Product Name sTKN D Revision Date 30-Jul-2018 Page 14 / 17

acid, such as sulfuric or citric. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system.

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.
US EPA Waste Number	D001
Special instructions for disposal	Dilute to 3 to 5 times the volume with cold water. Adjust to a pH between 6 and 9 with an

## 14. TRANSPORT INFORMATION

<u>U.S. DOT</u> UN/ID no Proper shipping name DOT Technical Name Hazard Class Packing Group Description	UN1987 Alcohol, N.O.S. Isopropyl alcohol, Isoamyl acetate 3 III UN1987, Alcohols, n.o.s., 3, III
TDG UN/ID no Proper shipping name TDG Technical Name Hazard Class Packing Group Description	UN1987 Alcohol, N.O.S. Isopropyl alcohol, Isoamyl acetate 3 III UN1987, Alcohols, n.o.s. (Isopropyl alcohol, Isoamyl acetate), 3, III
IATA UN/ID no Proper shipping name IATA Technical Name Hazard Class Packing Group Description	UN1987 Alcohol, N.O.S. Isopropyl alcohol, Isoamyl acetate 3 III UN1987, Alcohols, n.o.s. (Isopropyl alcohol, Isoamyl acetate), 3, III
IMDG UN/ID no Proper shipping name IMDG Technical Name Hazard Class Packing Group Description	UN1987 Alcohol, N.O.S. Isopropyl alcohol, Isoamyl acetate 3 III UN1987, Alcohols, n.o.s. (Isopropyl alcohol, Isoamyl acetate), 3, III, (26°C c.c.)

## Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies. If the item is part of a reagent set or kit the classification would change to the following: UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III. If the item is not regulated, the Chemical Kit classification does not apply.

Product Name sTKN D Revision Date 30-Jul-2018 Page 15 / 17

### **15. REGULATORY INFORMATION**

<u>National Inventories</u> TSCA DSL/NDSL

Complies Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

#### International Inventories

EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIoC	Complies

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Isopropyl alcohol (CAS #: 67-63-0)	1.0

## SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isoamyl acetate 123-92-2	-	-	-	Х

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

	Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
I				

EN / AGHS

Isoamyl acetate 123-92-2	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
-----------------------------	---------	---	--

## US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Isopropyl alcohol 67-63-0	Х	X	Х
Isoamyl acetate 123-92-2	Х	X	Х

#### U.S. EPA Label Information

Chemical name	FIFRA	FDA
Isopropyl alcohol	180.0950	-
Isoamyl acetate	180.0910	-

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

## Special Comments

None

#### Additional information

#### Global Automotive Declarable Substance List (GADSL) Not applicable

#### **NFPA and HMIS Classifications**

NFPA	Health hazards - 2	Flammability - 3	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 1	Flammability - 3	Physical Hazards - 0	Personal protection - X - See section 8 for more information

## Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH ACGIH NDF		Immediately Dangerous to Life or Health ACGIH (American Conference of Governmental Industrial Hygienists) no data	
Legend - Sec	tion 8: EXPOSURE CONTROLS/PERSONAL	PROTECTION	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Concentration	Ceiling	Ceiling Limit Value
Х	Listed	Vacated	These values have no official status. The only

Product Name sTKN D Revision Date 30-Jul-2018 Page 17 / 17

> binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.

SKN* RSP+ C M	Skin designation Respiratory sensitization Carcinogen mutagen	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By	Hach Pro	duct Compliance Department	
Issue Date	11-Jan-20	018	
<b>Revision Date</b>	30-Jul-20	18	
<b>Revision Note</b>	None		

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

HACH COMPANY©2018

End of Safety Data Sheet