according to the OSHA Hazard Communication Standard



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Versi 9.8	ion Revisior 10/28/20		SDS Number: 1326741-00052		Date of last issue: 03/17/2023 Date of first issue: 02/27/2017					
SEC	SECTION 1. IDENTIFICATION									
	Product name		: \	ialty fluid						
	Product code		: D10260261							
	SDS-Identcode		:	13000000559						
	Manufacturer o	r supplier's de	etail	S						
	Company name	of supplier	: 1	ompany FC, LLC						
	Address			1007 Market Street Wilmington, DE 19801 United States of America (USA)						
	Telephone		: 1	1-844-773-CHEM (outside the U.S. 1-302-773-1000)						
	Emergency telephone		7	Medical emergency: 1-866-595-1473 (outside the U.S. 1-773-2000) ; Transport emergency: +1-800-424-9300 (outhe U.S. +1-703-527-3887)						
	Recommended	use of the che	emie	cal and restrictio	ns on use					
	Recommended use		: (	Cleaning agent						
	Restrictions on u	JSE	[ t i v	ions involving imp nternal body fluids vritten agreement	sers only. Il Chemours™ materials in medical applica- plantation in the human body or contact with s or tissues unless agreed to by Seller in a covering such use. For further information, ur Chemours representative.					

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

#### Other hazards

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects.

Rapid evaporation of the product may cause frostbite.

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

Substance / Mixture : Substance

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Subst	tance name	: 1,1,1,2,2,3,4,5,5	: 1,1,1,2,2,3,4,5,5,5-Decafluoropentane		
CAS-	No.	: 138495-42-8			
Com	ponents				

Chemical name	CAS-No.	Concentration (% w/w)				
1,1,1,2,2,3,4,5,5,5-	138495-42-8	>= 90 - <= 100				
Decafluoropentane						
Actual concentration is withheld as a trade secret						

#### **SECTION 4. FIRST AID MEASURES**

If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause cardiac arrhythmia. Inhalation may provoke the following symptoms: Dizziness
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
Notes to physician	:	Because of possible disturbances of cardiac rhythm, ca- techolamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with spe- cial caution.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.

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Haza ucts	rdous combustion prod-	:	Hydrogen fluoride carbonyl fluoride Carbon oxides		
Speci ods	Specific extinguishing meth- ods		cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	Special protective equipment for fire-fighters		necessary.	ed breathing apparatus for firefighting if tective equipment.	
SECTION 6. ACCIDENTAL RELEASE MEASURES					

ti	Personal precautions, protec- ive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
E	Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
	Nethods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate contain- ment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dispo- sal of this material, as well as those materials and items em- ployed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.

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,	Advice on safe handling		:	<ul> <li>Handle in accordance with good industrial hygiene and s practice, based on the results of the workplace exposure sessment Take care to prevent spills, waste and minimize release t environment.</li> </ul>			
(	Conditions for safe storage		:	Do not expose drums to direct heat or temperature above 46°C (115°F) to avoid pressurizing and possibly distorting drums. Material should not be dispensed by pouring from pail/drun shipping containers containing 5 gallons or more. The use drum pump is recommended for dispensing from pail/drun shipping containers with 5 gallons or more, except for sma containers where adequate ventilation can be used to mar the exposure. Keep in properly labeled containers. Store in accordance with the particular national regulations			
I	Materials to avoid		:	No special restric	tions on storage with other products.		
	Recommended storage tem- perature		:	< 115 °F / < 46 °C			
	Further information on stor- age stability		:	The product has a	an indefinite shelf life when stored properly.		

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
1,1,1,2,2,3,4,5,5,5-	138495-42-8	TWA	225 ppm	WEEL
Decafluoropentane			2,320 mg/m <sup>3</sup>	
		STEL	700 ppm	WEEL
			7,217 mg/m <sup>3</sup>	

Engineering measures

: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

#### Personal protective equipment

Respiratory protection	: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are
	unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided
	by air purifying respirators against exposure to any hazar- dous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release,

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Versior 9.8	n Revision Date: 10/28/2024	-	S Number: 26741-00052	Date of last issue: 03/17/2023 Date of first issue: 02/27/2017	
				re unknown, or any other circumstance g respirators may not provide adequate	
Hand protection Material Glove thickness Wearing time		:	Viton® 0.7 mm 120 min		
Remarks		:	Choose gloves to protect hands against chemicals depend on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to ch micals of the aforementioned protective gloves with the glo manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the pro- duct. Change gloves often!		
Eye protection Skin and body protection		:	Wear the following Safety glasses	g personal protective equipment:	
		:	Skin should be wa	ashed after contact.	
Hy	giene measures	:	eye flushing syste king place. When using do no	mical is likely during typical use, provide ms and safety showers close to the wor- ot eat, drink or smoke. ed clothing before re-use.	

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	slight, ether-like
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	-118.7 °F / -83.7 °C
Initial boiling point and boiling range	:	128.75 °F / 53.75 °C (1,013 hPa)
Flash point	:	Method: ASTM D 56, Tag closed cup does not flash

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E	Evapora	ation rate	:	No data available	9
F	Flamma	ability (solid, gas)	:	Not applicable	
F	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	Upper flammabili Method: ASTM E None.	
		explosion limit / Lower bility limit	:	Lower flammabili Method: ASTM E None.	
١	Vapor p	pressure	:	313 hPa (77 °F /	25 °C)
F	Relative	e vapor density	:	8.7	
[	Density	,	:	1.58 g/cm³ (77 °F	F / 25 °C)
				1.60 g/cm³ (68 °F	F / 20 °C)
ç	Solubili Wat	ty(ies) er solubility	:	0.10 - 0.14 g/l (6	8 °F / 20 °C)
	Partition coefficient: n- octanol/water		:	log Pow: 2.7 (75	°F / 24 °C)
A	Autoign	ition temperature	:	No data available	)
Γ	Decom	position temperature	:	No data available	)
١	Viscosi Visc	ty osity, dynamic	:	6.7 mPa.s (77 °F	/ 25 °C)
	Visc	osity, kinematic	:	No data available	)
E	Explosi	ve properties	:	Not explosive	
(	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle Particle	characteristics size	:	Not applicable	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	None known.

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tions				
Conc	litions to avoid	:	None known.	
Incor	npatible materials	:	None.	
Haza produ	rdous decomposition	:	No hazardous d	ecomposition products are known.
SECTION	11. TOXICOLOGICAL	INFO	ORMATION	
Infor	mation on likely route	s of e	exposure	
Inhal	ation			
• • • • • •	contact			
Inges				
Eye	contact			

#### Acute toxicity

Not classified based on available information.

#### **Components:**

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 114.428 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403
		No observed adverse effect concentration (Dog): 5000 ppm Test atmosphere: gas Method: Cardiac sensitization study
		Lowest observed adverse effect concentration (Dog): > 5000 ppm Test atmosphere: gas Method: Cardiac sensitization study
		Cardiac sensitisation threshold limit (Dog): > 51,544 mg/m³ Test atmosphere: gas Method: Cardiac sensitization study
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

Species	:	Rabbit
	-	

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Methoo Result	-	-	OECD Test Gu No skin irritatio	

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### **Components:**

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

Test Type	:	Buehler Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

#### Germ cell mutagenicity

Not classified based on available information.

#### Components:

Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: inhalation (vapor) Method: OECD Test Guideline 474 Result: negative
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.

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#### Carcinogenicity

Not classified based on available information.

- IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

Effects on fertility	:	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapor) Method: OECD Test Guideline 415 Result: negative
Effects on fetal development	:	Test Type: Prenatal development toxicity study (teratogenicity) Species: Rat Application Route: inhalation (vapor) Method: OECD Test Guideline 414 Result: negative
Reproductive toxicity - As- sessment	:	Weight of evidence does not support classification for repro- ductive toxicity

#### STOT-single exposure

Not classified based on available information.

#### **Components:**

Routes of exposure Assessment	:	Ingestion No significant health effects observed in animals at concentra- tions of 2000 mg/kg bw or less
Routes of exposure Assessment	:	Skin contact No significant health effects observed in animals at concentra- tions of 2000 mg/kg bw or less
Routes of exposure Assessment	:	inhalation (vapor) No significant health effects observed in animals at concentra- tions of 20 mg/l/4h or less

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#### STOT-repeated exposure

Not classified based on available information.

#### Components:

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

Routes of exposure	:	inhalation (vapor)
Assessment	:	No significant health effects observed in animals at concentra-
		tions of 1 mg/l/6h/d or less.

#### Repeated dose toxicity

#### Components:

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

Species	: Rat, male and female
NOAEL	: 15.463 mg/l
LOAEL	: 20.618 mg/l
Application Route	: inhalation (vapor)
Exposure time	: 90 Days
Method	: OECD Test Guideline 413

#### Aspiration toxicity

Not classified based on available information.

#### **Components:**

#### 1,1,1,2,2,3,4,5,5,5-Decafluoropentane:

No aspiration toxicity classification

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Components:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 13 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 10.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 120 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Scenedesmus capricornutum (fresh water algae)): 120 mg/l Exposure time: 72 h

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				Method: OECD Te	est Guideline 201
a		to daphnia and other invertebrates (Chron- y)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
F	Persist	ence and degradabili	ty		
<u>(</u>	Compo	nents:			
1	1,1,1,2,	2,3,4,5,5,5-Decafluor	ope	ntane:	
E	Biodegr	adability	:	Result: Not readily Method: OECD Te	/ biodegradable. est Guideline 301D
E	Bioacc	umulative potential			
<u>(</u>	Compo	nents:			
1	1,1,1,2,	2,3,4,5,5,5-Decafluor	ope	ntane:	
E	Bioaccu	mulation	:	Remarks: Bioaccu	imulation is unlikely.
-	Partitior octanol/	n coefficient: n- /water	:	log Pow: 2.4 (75 °	F / 24 °C)
Г	Mobility	y in soil			
1	No data	available			
		dverse effects			
1	No data	available			
SECT	FION 13	3. DISPOSAL CONSIE	DER	ATIONS	
ſ	Dispos	al methods			
١	Waste f	rom residues	:	Dispose of in according Do not dispose of	ordance with local regulations. waste into sewer.

	Do not dispose of waste into sewer.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

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#### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable for product as supplied.

#### **Domestic regulation**

**49 CFR** Not regulated as a dangerous good

#### Special precautions for user

Not applicable

#### SECTION 15. REGULATORY INFORMATION

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	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.
US State Regulations		
Pennsylvania Right To Know	N	

1,1,1,2,2,3,4,5,5,5-Decafluoropentane

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International Regulations Montreal Protocol

: 1,1,1,2,2,3,4,5,5,5-Decafluoropentane

#### Additional regulatory information

1,1,1,2,2,3,4,5,5,5-

138495-42-8

Decafluoropentane

The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product.

See 40 CFR § 721.5645

This material contains one or more substances which requires export notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D:

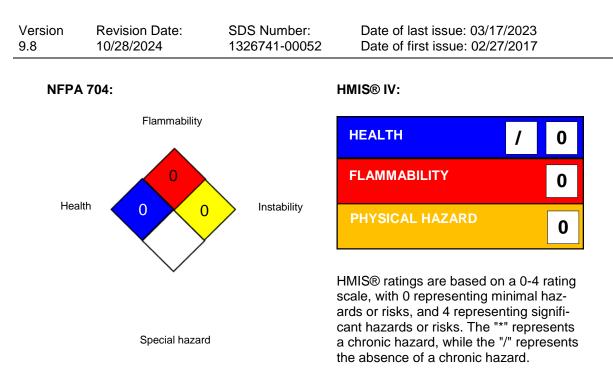
#### SECTION 16. OTHER INFORMATION

#### Further information

according to the OSHA Hazard Communication Standard



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#### Full text of other abbreviations

WEEL	:	Workplace Environmental Exposure Levels (WEEL)
WEEL / STEL	:	Short term exposure limit
WEEL/TWA	:	8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office



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of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

Revision Date : 10/28/2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8