Safety Data Sheet According to Hazard Communication Standard (29 CFR 1910.1200)

R32		
Issue date: 04/29/2015	Version 1.0	Revision date: 04/29/2015
1. Identification		
Product name	R32	
Synonyms	-	
CAS #	See section 3	
Product code	-	
Product use	Used as refrigerant, an importar	nt component of R22's replacement.
Manufacturer/Supplier		
Supplier(Manufacturer):	ZHEJIANG YONGHE REFRIGE	RANT CO.,LTD.
Address:	No.E-025, Donggang Industrial	Park, Quzhou City, Zhejiang Province, China
Contact person(E-mail):	Yonghe_gas4@qhyh.com	
Telephone:	+86 571-3832780	
Fax:	+86 570-8888404	
Emergency telephone Number:	+86 571-3832780	
2. Hazard(s) identification		
GHS classification		
Physical hazards	Flammable gases	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Not classified	
Environmental hazards	Not classified	
GHS label elements		
Hazard Pictograms		-
Signal word	Danger	
Hazard statement	Extremely flammable gas.	
	Contains gas under pressure; m	ay explode if heated.
Precautionary statement		
Prevention	Keep away from heat/sparks/op	en flames/hot surfaces. — No smoking.
Response	Leaking gas fire: Do not extingu	ish, unless leak can be stopped safely.
	Eliminate all ignition sources if s	afe to do so.
Storage	Protect from sunlight. Store in a	well-ventilated place.
Disposal	Not applicable.	
3. Composition / information on	ingredients	
•	-	

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Components	CAS#	Percent
Difluoromethane	75-10-5	≥99.8%

4. First-aid Measures

Eye contactImmediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.Skin contactThaw affected areas with water. Remove contaminated clothing. Caution: clothing may adhere to the skin in the case of freeze burns. After contact with skin, wash immediately with plenty of warm water. If irritation or blistering occurs, obtain medical attention.InhalationRemove patient from exposure, keep warm and at rest. Administer oxygen if necessary. Apply artificial respiration if breathing has ceased or shows signs of failing. In the event of cardiac arrest apply external cardiac massage. Obtain immediate medical attention.IngestionUnlikely route of exposure. Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain immediate medical attention.Notes to physicianTreat symptoms.5. Fire-fightting measuresExtremely flammable.Extinguishing media Unsuitable extinguishing mediaUse appropriate extinguishing media. Dry powder. Unsuitable extinguishing mediaFirefighting equipment/instructionsShut off gas supply if this can be done safely. If possible, take container out of dangerous zone. Cool cylinders rupture or release under fire conditions.Hazardous combustion productsHydrogen fluoride, carbon dioxide, carbon monoxide.6. Accidental release measuresImmediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Shut off gas supply if this can be done safely.
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suitable protective equipment (section 8). Shut off gas supply if this can be done safely.
Isolate area until gas has dispersed.
Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Discharge into the environment must be avoided.
Methods for cleaning up Allow small spillages to evaporate provided there is adequate ventilation. Large
spillages: Ventilate area. Contain spillages with sand, earth or any suitable adsorbent
material. Prevent liquid from entering drains, sewers, basements and work pits since
the vapor may create an explosive or suffocating atmosphere.
7. Handling and storage
Handling Keep away from sources of ignition - No Smoking. Take precautionary measures
against static discharges. Avoid inhalation of high concentrations of vapors.
Atmospheric levels should be controlled in compliance with the occupational exposure

limit. Atmospheric concentrations well below the occupational exposure limit can be

achieved by good occupational hygiene practice. The vapor is heavier than air, high concentrations may be produced at low levels where general ventilation is poor, in such cases provide adequate ventilation or wear suitable respiratory protective equipment with positive air supply. Avoid contact between the liquid and skin and eyes. Keep in a well ventilated place. Keep in a cool place away from fire risk, direct sunlight and all sources of heat such as electric and steam radiators. Avoid storing near to the intake of air conditioning units, boiler units and open drains. Cylinders and Drums: Keep container dry. Storage temperature: < 45°C.

8. Exposure controls / personal protection

Control parameters:

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

Not Available

Storage

EMERGENCY LIMITS:

Ingredient	TEEL-1	TEEL-2	TEEL-3
Difluoromethane	1,300 ppm	1300 ppm	39000 ppm

Ingredient	Original IDLH	Revised IDLH
Difluoromethane	Not Available	Not Available

Exposure controls:

Appropriate engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Individual protection measures, such as personal protective equipment:

Eye / face protection	Sufficient eye protection should be worn. When handling compressed gas, at least glasses with
	side protection should be worn. When handling liquid gas, chemical safety goggles must be
	used as well as a protective shield.
Skin protection	Body protection: Use protective boots while handling gas cylinders.
	Hand protection: Wear leather gloves to prevent frostbite injuries from rapidly expanding gas
	when handling pressurized gas bottles.
Respiratory protection	In an emergency (e.g.: unintentional release of the substance, exceeding the occupational
	exposure limit value) respiratory protection must be worn. Consider the maximum period for
	wear. Wear self-contained breathing apparatus. Do not use filter respirator.
General hygiene	Wash hands, forearms and face thoroughly after handling chemical products, before eating,
considerations	smoking and using the lavatory and at the end of the working period. Keep away from
	foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical and chemical properties

Appearance Gas Physical state Gas Form Compressed liquefied gas Color Clear, colorless Odor Slight ethereal

Odor threshold	Not available
рН	Not available
Vapor pressure	17.01 Bar
Melting point/Freezing point	-136°C
initial boiling point and boiling range	-51.7°C
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Extremely flammable
Explosion limits	Not available
Vapor density	Not available
Relative density	Not available
Solubility (water)	Insoluble
Partition coefficient	0.21 (25 °C)
Auto-ignition temperature	530 °C
Decomposition temperature	Not available
Specific gravity	Not available
Density	Not available
Flammability limits in air, upper, %by volume	31.0 %(v/v)
Flammability limits in air, lower, % by volume	14.0 %(v/v)
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	Not available
10. Stability and reactivity	
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials. Avoid contact with flames and red hot metallic surfaces.
	Temperatures above 45 °C.
Incompatible materials	Strong oxidizing agents, Alkali metals, Alkaline earth metals.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions: Carbon oxides,
	hydrogen fluoride.
Possibility of hazardous reactions	Can react violently if in contact with alkali metals and alkaline earth metals - sodium,
	potassium, barium. May react violently with: oxidizing agents.
11. Toxicological information	
Toxicokinetics, metabolism and distribution	on:
Non-human toxicological data:	Not available
Information on toxicological effects:	
Acute toxicity:	
LD50(Oral, Rat):	Not available
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat): Skin corrosion/Irritation:	> 520000 ppm 4H Not classified.
Skin conosion/initiation: Serious eye damage/irritation:	Not classified
Material name: R32	SDS US

Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

12. Ecological information

Toxicity:

T	oxicity:							_
	Acute to	oxicity	Time	Species	Method	Evaluation	Remarks	
	LC50	N/A	96h	Fish	OECD 203	N/A	N/A]
	EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A	
	EC50	N/A	72h	Algae	OECD 201	N/A	N/A	
Persis	tence and deg	radability:	Not re	adily biodegra	dable.			-
			The lo	ow octanol-wa	ter partition coe	fficient indicate	ed that the pro	oduct is not likely to
Bioaco	Bioaccumulative potential: bioaccumulate.							
Mobili	obility in soil: The product is insoluble in water.							
Result	ts of PBT&vPvB	B assessment:	The su	ubstance is no	t PBT / vPvB.			
Other	adverse effects	5:	No kno	own significan	t effects or critica	al hazards.		
13. D	isposal cons	siderations						
Dispos	sal instructions	5	Dispos	se of contents	/container in ac	cordance with	local/regional/	national/international
			regula	tions.				
Conta	minated packag	ging	Since	emptied conta	iners may retain	product residu	ie, follow label	warnings even after
			contai	ner is emptied				
14. Ti	ransport info	ormation						
DOT								
Ва	asic shipping r	equirements:						
U	N number		UN32	52				
Pr	oper shipping	name	DIFLU	OROMETHAN	NE (REFRIGERA	ANT GAS R 32))	
На	azard class		2.1					
Pa	acking group		-					
Er	nvironmental h	azards	No					
ΙΑΤΑ								
U	N number		UN32	52				
U	N proper shipp	ing name	DIFLU	OROMETHAN	NE (REFRIGERA	ANT GAS R 32))	
Tr	ansport hazaro	l class(es)	2.1					
Ра	acking group		-					
Er	nvironmental h	azards	No					
IMDG								
U	N number		UN32	52				
U	N proper shipp	ing name	DIFLU	OROMETHAN	NE (REFRIGERA	ANT GAS R 32))	

Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Difluoromethane (75-10-5) is found on the	"US - Hawaii Air Contaminant Limits" List.
following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory" List.

16. Other information, including date of preparation or last revision

HMIS®ratings	Health: 2
	Flammability: 4
	Physical hazard: 3
NFPA ratings	Health: 2
	Flammability: 4
	Instability: 3
Disclaimer	The information in the sheet was written based on the best knowledge and experience
	currently available.
Issue date	04-29-2015