From: BRENNTAG SOUT HWEST INC. To: Monday, October 06, 2014

Safety Data Sheet
GHS-Compliant
May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements.



## REAGENT CHEMICAL & RESEARCH, INC. 115 US Hwy 202 Ringoes, NJ 08551

PRODUCT IDENTITY	
Hydrochloric Acid, 20° or 22° Baume	Safety Data Sheet Revision Date - September 13, 2012
Section 1 - Identification	
Product Name	CAS#
Hydrochloric Acid	7647-01-0
Synonym	Chemical Formula
Muriatic Acid	HCl
Chemical Name	Chemical Family
Hydrochloric Acid Solution	Inorganic Acid
Product Use	
Acidification, pH Adjustment	
Manufacturer/Supplier Name	Address
Reagent Chemical & Research, Inc.	115 US Hwy 202 Ringoes, NJ 08551
General Information	Country
1-908-284-2800	United States
Emergency Telephone	Transportation Emergency Numbe
1-409-899-3400	CHEMTREC 1-800-424-9300
Section 2 - Hazards Identification	
Section 2 - Hazards Identification  GHS Classification:	PHYSICAL
Section 2 - Hazards Identification  GHS Classification: HEALTH  Acute Toxicity - Category 1	PHYSICAL  Corrosive Liquid - Category 1
Section 2 - Hazards Identification  GHS Classification:  HEALTH	
Section 2 - Hazards Identification  GHS Classification:  HEALTH  Acute Toxicity - Category 1	
Section 2 - Hazards Identification  GHS Classification: HEALTH  Acute Toxicity - Category 1  Eye Corrosion - Category 1	
Section 2 - Hazards Identification  GHS Classification: HEALTH  Acute Toxicity - Category 1  Eye Corrosion - Category 1  Skin Corrosion - Category 1	
Section 2 - Hazards Identification  GHS Classification: HEALTH  Acute Toxicity - Category 1  Eye Corrosion - Category 1  Skin Corrosion - Category 1  Skin Sensitization - Category 1  Target Organ Toxicity - Category 1	
Section 2 - Hazards Identification  GHS Classification: HEALTH  Acute Toxicity - Category 1  Eye Corrosion - Category 1  Skin Corrosion - Category 1  Skin Sensitization - Category 1	







Signal Word: DANGER

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IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This M SDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

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GHS Label:					
Hazard Statements		Precauti	onary Statemen	ts	
Causes severe skin burns	k eye damage	Do not b	reathe mist/va	pors	
Toxic if swallowed (oral)		Avoid sk	in contact		
Toxic if inhaled (mist, va	apor)	Keep con	tainer tightly	closed	
May cause allergic or asth	nmatic symploms	Wear res	piratory prote	ction, prote	ctive glove
or breathing difficultie	es if inhaled	and ey	e/face protect	ion	
May be fatal if swallowed	& enters airway	Use only	in a well-ven	tilated area	
May cause genetic defects		Store co	ntaine <u>r</u> tightl	y closed in	cool/well
Corrosive to metals ventilated area  Wash thoroughly after handling		ventil	ated area		
		handling			
Section 3 - Composition / Inform	ation on Ingredient	s			
Component Description Hydrogen Chloride		<b>Percent</b> 26.00 -	37.00	<b>CAS#</b> 7647-0	01-0
Water		63.00 -	74.00	7732-	18-5
EXPOSURE LIMITS/REGULATOR	Y INFORMATION		·		
Substance	PEL	TLV	STEL	TWA	CEILING
Hydrogen Chloride	C-7 mg/m3	C-2 ppm	50 ppm	N/D	5 ppm
Water	N/D	N/D	N/D	N/D	N/D
N/D - Not Determined  Section 4 - First Aid Measures	C = C6	eiling Level	<u> </u>		
General					
Ii a known exposure occur					
procedures below. Simult	aneously contact	a physicia	an, or the near	est Poison (	Control
Center. Inform the person	n contacted of t	the type and	d extent of exp	posure, desci	cibe the
victim's symptoms and fol	Low the advice o	given. For	additional in:	tormation, ca	all day or
night, Reagent Chemical (	409) 899 <b>-</b> 3400 oz	Chemtrec_	(800) 424-9300	•	
Remove from contaminated	atmosphere. If	breathing h	nas ceased, c.	Lear the vict	cim's
airway and start mouth-to	-mouth artificia	al respirati	ion, which may	be supplemen	nted
by the use of a bag-mask	respirator, o <u>r</u> a	a manually-t	triggered, oxy	gen supply ca	apable
of delivering 1 liter/sec	ond or more. It	t the victin	n is breathing	, oxygen may	be
administered from a deman	d-type or contin	nuous-flow :	inhalator, pre	ferably with	_a
physician's advice. Cont.		immadiatali	17		

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Section 4 - First Aid Measures (continued) Immediately flush the eyes with large quantities of running water for 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. DO NOT attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue the flushing for an additional 15 minutes if the physician is not available. Skin Contact Immediately remove contaminated clothing under a safety shower. Flush all affected areas with large amounts of water for 15 minutes. DO NOT attempt to neutralize with chemical agents. Obtain medical advice. Immediately give large  $\underline{\text{quantities}}$  of water or milk, it DO NOT induce vomiting. available. It vomiting does occur, give fluids again. Never give anything by mouth to an unconscious person. Call a physician or the nearest Poison Control Center. Medical Conditions Generally Aggravated by Exposu Hydrogen Chloride will aggravate breathing disorders Note to Physician Attending Physician should treat exposed patients symptomatically Section 5 - Fire Fighting Measures Extinguishing Method Not Applicable, use water to dilute spills and to flush them away from ignition sources. Unusual Fire and Explosion Hazard Non-flammable, but Hydrochloric Acid reacts with metals. Special Firefighting Procedures Non-flammable, but Hydrochloric Acid reacts with all metals, except gold and platinum, with rapid evolution of Hydrogen which is flammable and explosive in air. Firefighters exposed to Hydrochloric Acid vapors should wear Scott Air-Pak, or equivalent. Hydrogen Chloride vapors are extremely irritating to the respiratory tract and may cause breathing difficulty. Section 6 - Accidental Release Measures Steps to be Taken in Case Material is Released or Spille Spills or discharges into the environment involving large quantities of Hydrochloric Acid should be controlled and cleaned-up according to a pre-determined, affirmative written Spill Prevention and Control Program. For assistance in developing a SPCP contact your nearest Reagent Sales Office. Refer to Section 15 for spill/release reporting information. Spills should be handled immediately by neutralization and dilution of the spilled product by the use of Soda Ash (Sodium Carbonate), Lime (Calcium Hydroxide), or Limestone (Calcium Carbonate) with large amounts of water. For an interior (inside a closed space) spill be aware that the use of Soda Ash, Lime and Limestone will evolve heat and carbon dioxide and that ample ventilation must be provided.

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Section 6 - Accidental Release Measures (continued)

Waste Disposal Under Federal RCRA, it is	the responsibi	ility of the	user of produc	ts to determ	ine,
at the time of disposal,	whether the pro	oduct falls	under RCRA as a	hazardous w	aste.
This is because product u	ses, transforma	ations, mixt	ures, etc. may	render the	
resulting end-product haz	ardous.				
Container Disposa Containers should be clea	ned of residual	product be	fore disposal.	Empty conta	iners
should be disposed of in	accordance with	ı all applic	able laws and r	egulations.	
Section 7 - Handling and Storag	е				
Handling Chemical goggles and full	face shield mu	ist be worn	at all times by	personnel	
exposed to or handling Hy	drochloric Acid	i. The use	of a NIOSH appr	oved cartride	ge
respirator or a Scott Air	-Pak should be	used by all	personnel expo	sed.	
Storage Store containers in a coo	l, dry location	away from	direct sunlight	, sources of	
intense heat, or where fr	eezing may occu	r. Store m	aterial in acid	-proof conta	iner.
Keep container tightly cl	osed when not i	n use. Kee	p container awa	y trom incom	patible
materials. All loading,	unloading, and	storage equ	ipment must be	inspected pr	ior to
any transfer operations a General Comments Impervious clothing, glov		nd head gear	must be worn a	t all times	
by personnel exposed to o Precautions to be Taken in Handling and St Make sure all personnel i Industrial Hygiene practi	orag nvolved in hous	ekeeping an	d spill clean-u		d
Section 8 - Exposure Controls /	Personal Protectio	n			
EXPOSURE LIMITS Substance	PEI.	ТЬV	STEL	TWA	CEILING
Hydrogen Chloride	C-7 mg/m3	C-5 ppm	50 ppm	N/D	5 ppm
Water	N/D	N/D	N/D	N/D	N/D
N/D - No Data Availa		- Ceiling L		147 5	170
Respiratory Protection Maintain airborne contami	nate levels bel	ow listed g	uidelines. Use	with adequat	te
ventilation. Use a mecha	nical tan or ve	nt area to	scrubber. Use	NIOSH approve	ed
respiratory protection if  Ventilatior   Local Exhaus:		Special Vent fun Other Not Appl	nes to appropria		ay be
necessary to prevent skin					
			in the work ar		
Eye Protection Splash goggles or safety	A SHOWET BUDGING				
	·				Lions

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Other Protectic		copriate for task.	An annon or other im	nermeable body
ose body	procederon appr	opilate for cask.	An apron or other imp	permeable body
protectio	on is suggested.	Full body chemi-	cal protection is recor	mmended for
emergency	response proce	edures.		
Section 9 -	Physical and Chen	nical Properties		
Boiling Point		230 F	Specific Gravity (H2O = 1)	1.13 - 1.19
Vapor Pressure	e (mm Hg)		Freezing Poin	
Vapor Density	(AIR = 1)	50 - 60 mm	Density	12 F to -63 F
		N.A.		9.48 - 9.61
Solubility in Wa miscible	itei			
Appearance an				
		th a sharp pungen	t odor	
	- Stability and Read	•		
Stability		onditions to Avoic ydrochloric Acid i	is extremely reactive.	Avoid contact with
	Stable	ctal surfaces and		
	(Materials to Avoic		OXIGIZING agenes.	· · · · ·
Hydrochlo	oric Acid is che	cresi cana di Larri ya Erasta Lea i sustan		
		micarry stable wife	en properly contained a	and handled. It is a
strong mi			en properly contained a metals and metal oxides	
	neral acid and	reacts with many m		and hydroxides
to form t	neral acid and	reacts with many metal chloride. It	metals and metal oxides	and hydroxides
to form t	neral acid and the equivalent mestion to the highest the form Hydros	reacts with many metal chloride. It	metals and metal oxides	and hydroxides and other silicious to form Carbon
to form t compounds Dioxide a	neral acid and the equivalent me to form Hydros	reacts with many metal chloride. Is silicic Acid; it respectively.	metals and metal oxides t reacts with zeolites eacts with carbonates to	and hydroxides and other silicious to form Carbon form Chiorine, a
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to form to compounds Dioxide a Lethal, p It is a h It's reac reactions 2-aminoet ethylene beta proponosphide	neral acid and the equivalent mest to form Hydros and Water. It is poisonous gas.  The equivalent mest to to form Hydros and Water. It is poisonous gas.  The equivalent mest to the equivalent with most to will result when the equivalent mest to the equ	reacts with many reacts with many reacts with many reacts chloride. It is oxidized by Oxygo It reacts with all tor carbohydrate metals will product the Hydrochloric Act hydroxide, calcium in improved the imine, oleum (in the imine, oleum (i	metals and metal oxides t reacts with zeolites eacts with carbonates to gen or electrolysis to kaline compounds to for es, esters and other co ce Hydrogen, an explosi cid Reacts with acetic um phosphide, chlorosul fuming sulfuric acid),	and hydroxides and other silicious to form Carbon form Chlorine, a rm a neutral salt. empounds. tve gas. Violent anhydride, tonic acid, perchloric acid, acid, uranium
to form to compounds Dioxide a lethal, put is a half is reactions 2-aminoet ethylene beta propublished propublished beta	neral acid and the equivalent mest to form Hydros and Water. It is coisonous gas. The equivalent mest to the will result when the hand, ammonium diamine, ethyle siclactone, proper and vinyl acet composition or By-product to the equivalent of the equivalent to the	reacts with many retal chloride. It is ilicic Acid; it resonant in the second s	metals and metal oxides t reacts with zeolites eacts with carbonates to gen or electrolysis to kaline compounds to for es, esters and other co ce Hydrogen, an explosi cid Reacts with acetic um phosphide, chiorosul fuming sulfuric acid), um hydroxide, sulturic	and hydroxides and other silicious to form Carbon form Chlorine, a rm a neutral salt. compounds. tve gas. Violent anhydride, tonic acid, perchloric acid, acid, uranium
to form to compounds Dioxide a Lethal, p It is a h It's reactions 2-aminoet ethylene beta prop phosphide Hazardous Dec Extreme h	neral acid and the equivalent mest to form Hydros and Water. It is poisonous gas.  Tydrolyzing agent tion with most will result when the chance and the composition of By-production of By-production of the composition of By-production of By-prod	reacts with many retal chloride. Its silicic Acid; it reacts with all the for carbohydrate metals will product the Hydroxide, calcium in improvedent and the control of the	metals and metal oxides t reacts with zeolites eacts with carbonates to gen or electrolysis to kaline compounds to for es, esters and other co ce Hydrogen, an explosi cid Reacts with acetic um phosphide, chiorosul fuming sulfuric acid), um hydroxide, sulfuric g is not all-inclusive.	and hydroxides and other silicious to form Carbon form Chlorine, a rm a neutral salt. compounds. tve gas. Violent anhydride, tonic acid, perchloric acid, acid, uranium
to form to compounds Dioxide a Lethal, p It is a h It's reactions 2-aminoet ethylene beta prop phosphide Hazardous Dec Extreme h	neral acid and the equivalent mass to form Hydros and Water. It is consonous gas. The equivalent mass to form with most awill result when the equivalent may cause to the eat may cause to the eat may cause to the equivalent may cause the equivalent may cause the equivalent may be	reacts with many retal chloride. It is ilicic Acid; it resists oxidized by Oxygon It reacts with all it for carbohydrate metals will product the Hydrochloric Acid hydroxide, calciume imine, oleum (in ate. This listing the product to decodes.	metals and metal oxides t reacts with zeolites eacts with carbonates to gen or electrolysis to kaline compounds to for es, esters and other co ce Hydrogen, an explosi cid Reacts with acetic um phosphide, chiorosul fuming sulfuric acid), um hydroxide, sulfuric g is not all-inclusive.	and other silicious of form Carbon form Chlorine, a om a neutral salt. ompounds. eve gas. Violent anhydride, fonic acid, perchloric acid, acid, uranium of tumes which may

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Route(s) of Entry	Inhalation?	Skin?	Ingestion?
Health Hazards (Acute and C	Yes	Yes	Yes
Hydrogen Chloride	e, both as a gas and	d in a solution as Hydroc	chloric Acid, is a
corrosive substar	ice and can cause se	evere and painful burns o	on contact with any
part of the body	or if taken interna	ally. The mucous membran	es of the eyes and the
upper respiratory	tract are especial	ly susceptible to the in	ritating effects of high
atmospheric conce	entrations of Hydroc	gen Chloride. The gas or	vapor is so
penetrating and p	oungent that when hi	gh concentrations do occ	eur, those exposed
should immediatel Carcinogenicity	y leave the contami  NTP?  No Data Avail	IARC Monographs?	OSHA Regulated? No Data Available
Signs and Symptoms of Expo Exposure to Hydro		ause severe burns at the	contact point:
Medical Conditions Generally	/ Aggravated by Exposu	natitis and breathing dis	······································
Toxicology	Inhalation I	Data	oraclo.
Hydrogen Chloride		LCLo - 1300 ppm/30 min	
	Rat LC. Oral (rabb	<sub>50</sub> - 4701 ppm/30 min	
	LD <sub>50</sub> -	900 mg/kg	
	Mutagenic Inhala		(Chromosome damage)
	Oral:	100 ppm (Chromosome da	
	Parenta		
Section 12 - Ecologic		al: 20 mg (Cytogenic e:	Liects,
Ecological Toxicity	ai iiiiOiiiiatiOii		
Animals exposed t	o hydrochloric acid	solution will experience	e tissue damage, burns and
may be killed. P	lants contaminated	with hydrochloric acid s	olutions of low pH may be
adversely effecte	d or destroyed. Hi	gh concentrations have b	een shown to be detrimental
	A release into a bo	dy of water will kill fi	sh and other aquatic lite.
Other Ecological Information Hydrochloric acid	l is stable and foun	d naturally in the envir	onment. All work practices
should be aimed a	t eliminating envir	conmental contamination.	
Chemical Fate Information			***************************************
Other Regulatory Information		ring in the environment.	
No other regulato	•••••	vailable on this product	•
Section 13 - Disposal	Considerations		
As sold, this pro	duct, when discarde	d or disposed of, is a h	azardous waste according
to Federal regula	tions (40 CFR 261).	It is listed as Hazard	ous Waste Number D002,
listed due to its	corrosivity. The	transportation, treatmen	t and disposal of this waste
material must be	conducted in compli	ance with 40 CFR 262, 26	3, 264, 268 and 270.
Disposal can occu	r only in properly	permitted facilities. R	eier to state and local

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Product #: 109258 Name: HYDROCHLORIC A CID 20 BE Desc: MURIATIC ACID
From: BRENNTAG SCUT HWEST N.C. To: Monday, October 06, 2014

Section 13 - Disposal Considerations (continued) Waste Disposal Under Federal RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether the product falls under RCRA as a hazardous waste. This is because product uses, transformations, mixtures, etc. may render the resulting end-product hazardous. Container Disposa Containers should be cleaned of residual product before disposal. Empty containers should be disposed of in accordance with all applicable laws and regulations. Section 14 - Transport Information Regulated Materia Hydrochloric Acid is defined as hazardous by the US DOT and Transport Canada North American Emergency Response Guide Boo ID # 1789 Guide #157 2 2008 & 2012 Revision DOMESTIC SHIPPING INFORMATION Proper Shipping Name Hazard Classification Hydrochloric Acid Corrosive UN/NA Identification Hazard Class UN 1789 Class 8 **DOT Labels Required** Packaging Group Corrosive ΙI INTERNATIONAL SHIPPING INFORMATION Proper Shipping Name Hazard Classification Hydrochloric Acid Corrosive **UN/NA Identification** Hazard Class UN 1789 Class 8 Labels Required Packaging Group Corrosive ΙI Section 15 - Regulatory Information U.S. Federal Regulations Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): Chemical Name: Hydrochloric Acid CAS # 7647-01-0 RQ - 5000 lbs Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory OSHA Hazard Communication Standard Classification: Corrosive as defined by the OSHA Hazard Communication Standard. Clean Water Act (CWA): CAS # /64/-U1-U Chemical Name: Hydrochloric Acid Listed as Hazardous No chemical components listed as Priority pollutants or Toxic pollutants Clean Air Act (CAA): Hydrochloric acid, CAS 7647-01-0, is listed as a hazardous air pollutant (HAP) US Environmental Protection Agency Risk Management Plan (RMP) Regulated: No, Hydrochloric acid solution under 37% is not regulated Superfund Amendments and Reauthorization Act (SARA) Title III Information CAS # 7647-01-0 TPQ 5000 lb EPCRA RQ SARA Section 302: Hydrochloric Acid SARA Section 313: Hydrochloric Acid CAS # 7647-01-0

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National Sanitation Foundation Limits (ANSI/NS	
Maximum Drinking Water Use Concentra	tion - 40 mg/1
Scale and Corrosion Control at Maxim State Regulations	um 40 mg/l
California Safe Drinking Water Act (Prop 65) L	isting:
No ingredients listed in this section	n .
California Right to Know Act:	
Chemical Name: Hydrochloric Acid	CAS # 7647-01-0
New Jersey Right to Know Act:	
Chemical Name: Hydrochloric Acid	CAS # 7647-01-0
Chemical Name: Water	CAS # 7732-18-5
Massachusetts Right to Know Act Substance List	(MSL) ::
Chemical Name: Hydrochloric Acid	CAS # 7647-01-0
Pennsylvania Right to Know Act Hazardous Subst	ance List:
Chemical Name: Water	CAS # 7732-18-5
Chemical Name: Hydrochloric Acid	CAS # 7647-01-0
nternational Regulations Canadian Domestic Substance List (DSL) Invento	ry Listing:
Chemical Name: Hydrochloric Acid	CAS # 7647-01-0
Canadian Ingredient Disclosure List	
Chemical Name: Hydrochloric Acid	CAS # /647-01-0
Canadian Workplace Hazardous Materials Informa	tion System (WHMIS):
Class E: Corrosive material	
This product has been classified acco	ording to the hazard criteria of the CPR
and the MSDS contains all of the i	information required by the CPR
European Inventory of Existing Chemicals (EINE	CS):
Chemical Name: Hydrochloric Acid	EINECS # 231595/
EU Labeling in Accordance with EC Directives:	
Hazard Symbols: C	
EU Risk (R) and Safety (S) Phrases:	
R23/24/25: Toxic by inhalation, in co	ontact with skin and if swallowed
R37/38: Irritating to respiratory sys	
R41: Risk of serious damage to eyes	
S36/37: Wear suitable protective clot	thing and gloves
	el unwell, seek medical advice immediately
S53: Avoid exposure - obtain special	

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Japanese Minister of International Trade and Indust	ry (MITI) Inventory Listing
Chemical Name: Hydrochloric Acid S	SECTION STRUCTURE # 1-324
Australian Inventory of Chemical Substances (AICS)	Listing:
Chemical Name: Hydrochloric Acid C	CAS # 7647-01-0
US Census Bureau - Foreign Trade Identification	
Chemical Name: Hydrochloric Acid F	HTS & Schedule B # 2806.10.0000
Section 16 - Other Information	
Created By Product Safety - 6/1/98	MSDS Revision Date September 13, 2012
MSDS Revision Number	Revision Indicator
Revision # 008 MSDS Contact	GHS Compliant Format
Robert Dritschel 908-284-2800 Does Product Contain, or is Manufactured with, CFC's	
No	
National Fire Protection Association (NFPA) Ratings Health - 3 Flammability - 0 Instability - 0	Other Hazard Information - ACID
lazardous Material Identification System (HMIS	
Health - 3 Flammability - 0 Physical Hazard - North American Emergency Response Guide Boo	O Protective Equipment - X
ID # 1789 Guide #157 2008 & 2012 Revision	
Disclaimer of Liability	
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resulting from the publication, use or reliance upon	n any data contained herein.
Data Sheets are available for other Reagent Chemica.	I and Research, Inc.
products. You are urged to obtain data sheets for a	all products you buy, process,
	envone working with or
use or distribute and you are encouraged to advise a	
use or distribute and you are encouraged to advise a exposed to such products of the information contains	
exposed to such products of the information contains	ed in the applicable data
exposed to such products of the information containers sheets. The data in this document is provided with	ed in the applicable data out any representation or
exposed to such products of the information contains sheets. The data in this document is provided with warranty, express or implied, regarding its accuracy	ed in the applicable data out any representation or y or correctness. No warranty
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